

Tier II Classification and Supporting Information

Former Sax Property
140 Granite Avenue
Dorchester, Massachusetts

SCANNED

RTN: 3-21844

June 2003

Prepared for:

*Metropolitan District Commission
20 Somerset Street
Boston, Massachusetts 02108*

Prepared by:

*Camp Dresser & McKee Inc.
One Cambridge Place
50 Hampshire Street
Cambridge, Massachusetts 02139*

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JUN 05 2003

DEP
NORTHEAST REGIONAL OFFICE



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-108

J.2.

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL
FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number

3 - 21844

A. SITE LOCATION:

Site Name: (optional) 140 Granite Avenue (Former Sax Property)

Street: 140 Granite Avenue

Location Aid:

City/Town: Dorchester

ZIP Code: 02124

Related Release Tracking Numbers that this Form Addresses:

Tier Classification: (check one of the following)

☐ Tier IA

☐ Tier IB

☐ Tier IC

☒ Tier II

☐ Not Tier Classified

If a Tier I Permit has been issued, state the Permit Number:

B. THIS FORM IS BEING USED TO: (check all that apply)

☒ Submit a Phase I Completion Statement, pursuant to 310 CMR 40.0484 (complete Sections A, B, C, G, H, I and J).

☐ Submit a Phase II Scope of Work, pursuant to 310 CMR 40.0834 (complete Sections A, B, C, G, H, I and J).

☐ Submit a final Phase II Comprehensive Site Report and Completion Statement, pursuant to 310 CMR 40.0834 (complete Sections A, B, C, D, G, H, I and J).

☐ Submit a Phase III Remedial Action Plan and Completion Statement, pursuant to 310 CMR 40.0862 (complete Sections A, B, C, G, H, I and J).

☐ Submit a Phase IV Remedy Implementation Plan pursuant to 310 CMR 40.0874 (complete Sections A, B, C, G, H, I and J).

☐ Submit an As-Built Construction Report, pursuant to 310 CMR 40.0875 (complete Sections A, B, C, G, H, I and J).

☐ Submit a Phase IV Final Inspection Report and Completion Statement pursuant to 310 CMR 40.0878 and 40.0879 (complete Sections A, B, C, E, G, H, I and J).

☐ Submit a periodic Phase V Inspection & Monitoring Report, pursuant to 310 CMR 40.0892 (complete Sections A, B, C, G, H, I and J).

☐ Submit a final Phase V Inspection & Monitoring Report and Completion Statement pursuant to 310 CMR 40.0893 (complete Sections A, B, C, F, G, H, I and J).

You must attach all supporting documentation required for each use of form indicated, including copies of any Legal Notices and Notices to Public Officials required by 310 CMR 40.1400.

C. RESPONSE ACTIONS:

☐ Check here if any response action(s) that serves as the basis for the Phase submittal(s) involves the use of Innovative Technologies. (DEP is interested in using this information to create an Innovative Technologies Cleanhouse.)

Describe Technologies:

D. PHASE II COMPLETION STATEMENT:

Specify the outcome of the Phase II Comprehensive Site Assessment:

☐ Additional Comprehensive Response Actions are necessary at this Site, based on the results of the Phase II Comprehensive Site Assessment.

☐ The requirements of a Class A Response Action Outcome have been met and a completed Response Action Outcome Statement (BWSC-104) will be submitted to DEP.

☐ The requirements of a Class B Response Action Outcome have been met and a completed Response Action Outcome Statement (BWSC-104) will be submitted to DEP.

☐ Rescoring of this Site using the Numerical Ranking System is necessary, based on the results of the final Phase II Report.

E. PHASE IV COMPLETION STATEMENT:

Specify the outcome of Phase IV activities:

☐ Phase V operation, maintenance or monitoring of the Comprehensive Response Action is necessary to achieve a Response Action Outcome. (This site will be subject to a Phase V Operation, Maintenance and Monitoring Annual Compliance Fee.)

☐ The requirements of a Class A Response Action Outcome have been met. No additional operation, maintenance or monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC-104) will be submitted to DEP.

☐ The requirements of a Class C Response Action Outcome have been met. No additional operation, maintenance or monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC-104) will be submitted to DEP.

SECTION E IS CONTINUED ON THE NEXT PAGE



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL
FORM & PHASE I COMPLETION STATEMENT

Release Tracking Number

3 - 21844

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

E. PHASE IV COMPLETION STATEMENT: (continued)

- ☐ The requirements of a Class C Response Action Outcome have been met. Further operation, maintenance or monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement (BWSC-104) will be submitted to DEP.

Indicate whether the operation and maintenance will be Active or Passive. (Active Operation and Maintenance is defined at 310 CMR 40.0006.):

☐ Active Operation and Maintenance

☐ Passive Operation and Maintenance

(Active Operation and Maintenance makes the Site subject to a Post-RAO Class C Active Operation and Maintenance Annual Compliance Fee.)

F. PHASE V COMPLETION STATEMENT:

Specify the outcome of Phase V activities:

- ☐ The requirements of a Class A Response Action Outcome have been met and a completed Response Action Outcome Statement (BWSC-104) will be submitted to DEP.
- ☐ The requirements of a Class C Response Action Outcome have been met. No additional operation, maintenance or monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC-104) will be submitted to DEP.
- ☐ The requirements of a Class C Response Action Outcome have been met. Further operation, maintenance or monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement (BWSC-104) will be submitted to DEP.

Indicate whether the operation and maintenance will be Active or Passive. (Active Operation and Maintenance is defined at 310 CMR 40.0006.):

☐ Active Operation and Maintenance

☐ Passive Operation and Maintenance

(Active Operation and Maintenance makes the Site subject to a Post-RAO Class C Active Operation and Maintenance Annual Compliance Fee.)

G. LSP OPINION:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with the information contained in this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

> if Section B indicates that a Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that a Phase II Scope of Work or a Phase IV Remedy Implementation Plan is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that an As-Built Construction Report or a Phase V Inspection and Monitoring Report is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

- ☐ Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

LSP Name: William R. Swanson LSP #: 6406

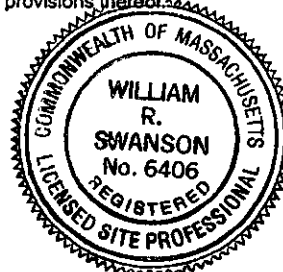
Telephone: (617) 452-6274 Ext.: _____

FAX: (optional) (617) 452-8274

Signature:

Date: 5/23/03

Stamp:





Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL
FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number

3 - 21844

H. PERSON UNDERTAKING RESPONSE ACTION(S):

Name of Organization: Metropolitan District Commission

Name of Contact: Samantha Overton Bussell Title: Deputy Commissioner for Policy

Street: 20 Somerset Street

City/Town: Boston State: MA ZIP Code: 02108

Telephone: 617-722-5000 Ext.: FAX: (optional)

☐ Check here if there has been a change in the person undertaking the Response Action.

I. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTION(S): (check one)

☒ RP or PRP Specify: ☒ Owner ☒ Operator ☐ Generator ☐ Transporter Other RP or PRP:

☐ Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5)

☐ Any Other Person Undertaking Response Action Specify Relationship:

J. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTION(S):

I, S. Bussell, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/are aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: S. Bussell Title: Deputy Commissioner for Policy
(signature)

For: Samantha Overton Bussell Date: May 28, 2003
(print name of person or entity recorded in Section H)

Enter address of the person providing certification, if different from address recorded in Section H:

Street:

City/Town: State: ZIP Code:

Telephone: Ext.: FAX: (optional)

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

RECEIVED

JUN 05 2003

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NORTHEAST REGIONAL OFFICE



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-107A

J. K.

**TIER CLASSIFICATION, TIER II EXTENSION &
TIER II TRANSFER TRANSMITTAL FORM**

Pursuant to 310 CMR 40.0510 and 40.0560 (Subpart E)

Release Tracking Number

3 - 21844

A. DISPOSAL SITE LOCATION:

Disposal Site Name: 140 Granite Avenue (Former Sax Property)

Street: 140 Granite Avenue

Location Aid:

City/Town: Dorchester

ZIP Code: 02124

Related Release Tracking Numbers That This Submittal Will Address:

JUN 05 2003

B. THIS FORM IS BEING USED TO: (check all that apply)

- ☐ Submit a new or revised Tier Classification Submittal for a Tier I Site, including a Numerical Ranking Scoresheet (complete Sections A, B, C, I, J, K and L).
- ☒ Submit a new or revised Tier Classification Submittal for a Tier II Site, including a Numerical Ranking Scoresheet (complete Sections A, B, C, F, G, I, J, K and L).
- ☐ Submit a Notice that an additional Release Tracking Number(s) is (are) being linked to his Tier Classified Site and rescoring is not required at this time (complete Sections A, B, J, K and L). If this submittal is for a Tier I Site, you must also submit a Minor Permit Modification Transmittal Form (BWSC-109).

List Additional Release Tracking Number(s):

- ☒ Submit a Phase I Completion Statement supporting a Tier Classification Submittal (complete Sections A, B, I, J, K and L).
- ☐ Submit a Tier II Extension Submittal for Response Actions at a Tier II Site (complete Sections A, B, D, F, G, I, J, K and L).
- ☐ Submit a Tier II Extension Submittal for Response Actions taken after expiration of a Waiver pursuant to 310 CMR 40.0630 (complete Sections A, B, D, F, J, K and L, and also complete Sections G and I or Section H).
- ☐ Submit a Tier II Transfer Submittal for a change in person(s) undertaking Response Actions at a Tier II Site (complete Sections A, B, E, F, G, I, J, K, L, M, N and O).
- ☐ Submit a Tier II Transfer Submittal for a change in person(s) undertaking Response Actions at a Waiver Site, pursuant to 310 CMR 40.0630 (complete Sections A, B, E, F, J, K, L, M, N and O, and also complete Sections G and I or Section H).

You must attach all supporting documentation required for each use of form indicated, including copies of any Legal Notices and Notices to Public Officials required by 310 CMR 40.140.

*NOTE: The Waiver expires on the effective date of this submittal and all further Response Actions must be taken as a Tier II Site.

C. TIER CLASSIFICATION SUBMITTAL:

Numerical Ranking Score for Disposal Site: (from Numerical Ranking Scoresheet) 286

Proposed Tier Classification of Disposal Site: (check one) ☐ Tier IA ☐ Tier IB ☐ Tier IC ☒ Tier II

Check which, if any, of the Tier I inclusionary criteria are met by the Disposal Site, pursuant to 310 CMR 40.0520:

- ☐ Groundwater is located within an Interim Wellhead Protection Area or a Zone II and there is evidence of groundwater contamination by an Oil or Hazardous Material at the time of Tier Classification at concentrations equal to or exceeding the applicable RCGW-1 Reportable Concentration set forth in 310 CMR 40.0360.
- ☐ An Imminent Hazard is present at the time of Tier Classification.
- ☐ Check here if this Tier Classification revises a previous submittal for this Disposal Site. You must include a revised Numerical Ranking Scoresheet with this submittal. If a Tier I Permit has been issued, you may also need to submit a Major Permit Modification Application (BWSC 10). If incorporating additional Release(s) into the Disposal Site, list Release Tracking Number(s):

D. TIER II EXTENSION SUBMITTAL REQUIREMENTS:

State the expiration date of the Tier II Classification or Waiver for the Disposal Site, whichever is applicable:

Attach a statement summarizing why a Permanent or Temporary Solution has not been achieved at the Disposal Site. A Tier II Extension is effective for a period of one year beyond the current expiration date of the Tier II Classification or Waiver.

E. TIER II TRANSFER SUBMITTAL REQUIREMENTS:

State the proposed effective date of the change in person(s) undertaking Response Actions at the Disposal Site:

Attach a statement summarizing the reasons for the proposed change in person(s) undertaking the Response Actions. All Response Actions must be completed by the deadline applicable to the person who first filed either a Tier Classification Submittal for the Disposal Site or received a Waiver of Approvals.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-107A

**TIER CLASSIFICATION, TIER II EXTENSION &
TIER II TRANSFER TRANSMITTAL FORM**

Pursuant to 310 CMR 40.0510 and 40.0560 (Subpart E)

Release Tracking Number

3 - 21844

F. DISPOSAL SITE COMPLIANCE HISTORY SUMMARY:

- > If providing either a Tier Classification Submittal for a Tier II Site or a Tier II Extension Submittal for a Waiver Site, the person named in Section J must provide a Compliance History.
- > If providing a Tier II Extension Submittal for a Tier II Site, the person named in Section J must update their Compliance History since the effective date of the Tier II Classification.
- > If providing a Tier II Transfer Submittal for a Tier II or Waiver Site, the person named in Section M must provide a Compliance History.

Compliance History for (provide only one name per History): _____

☐ Check here if there has been no change to the Compliance History of the person named above (Extension Submittal for a Tier II Site ONLY).

List all permits or licenses that have been issued by the Department that are relevant to this Disposal Site:

PROGRAM:	PERMIT NUMBER:	PERMIT CATEGORY:	FACILITY ID:
Air Quality	None		
Hazardous Waste (M.G.L. c. 21C)			
Solid Waste			
Industrial Wastewater Management			
Water Supply			
Water Pollution Control/Surface Water			
Water Pollution Control/Groundwater			
Water Pollution Control/Sewer Connection			
Wetland & Waterways			

List all other Federal, state or local permits, licenses, certifications, registrations, variances, or approvals that are relevant to this Disposal Site:

ISSUING AUTHORITY OR PROGRAM, OR DOCUMENTATION TYPE:	IDENTIFICATION NUMBER:	DATE ISSUED:

If needed, attach to this Transmittal Form a statement further describing the Compliance History of this Disposal Site. This statement must describe the compliance history of the person named above with the following:

- (1) DEP regulations; and
- (2) other laws for the protection of health, safety, public welfare and the environment administered or enforced by any other government agency.

Such a statement should identify information such as:

- (1) actions relevant to the Disposal Site taken by the Department to enforce its requirements including, but not limited to, a Notice of Noncompliance (NON), Notice of Intent to Assess Civil Administrative Penalty (PAN), Notice of Intent to Take Response Action (NORA), and an administrative enforcement order;
- (2) administrative consent orders;
- (3) judicial consent judgements;
- (4) similar administrative actions taken by other Federal, state or local agencies;
- (5) civil or criminal actions relevant to the Disposal Site brought on behalf of the DEP or other Federal, state, or local agencies; and
- (6) any additional relevant information.

For each action identified, provide the following information:

- (1) name of the issuing authority, type of action, identification number and date issued;
- (2) description of noncompliance cited;
- (3) current status of the matter; and
- (4) final disposition, if any.



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-107A

**TIER CLASSIFICATION, TIER II EXTENSION &
TIER II TRANSFER TRANSMITTAL FORM**

Pursuant to 310 CMR 40.0510 and 40.0560 (Subpart E)

Release Tracking Number

3 - 21844

G. CERTIFICATION OF ABILITY AND WILLINGNESS:

> If providing either a Tier II Classification Submittal or a Tier II Extension Submittal, the person who signs this certification **MUST** be the person named in Section J, or that person's agent

> If providing a Tier II Transfer Submittal, the person who signs this certification **MUST** be the person named in Section M, or that person's agent.

I attest under the pains and penalties of perjury that (i) I/the person(s) or entity(ies) on whose behalf this submittal is made has/have personally examined and am/is familiar with the requirements of M.G.L. c. 21E and 310 CMR 40.0000; (ii) based upon my inquiry of the/those Licensed Site Professional(s) employed or engaged to render Professional Services for the disposal site which is the subject of this Transmittal Form and of the person(s) or entity(ies) on whose behalf this submittal is made, and my/that person's(s) or entity's(ies) understanding as to the estimated costs of necessary response actions, that/those person(s) or entity(ies) has/have the technical, financial and legal ability to proceed with response actions for such site in accordance with M.G.L. c. 21E, 310 CMR 40.0000 and other applicable requirements; and (iii) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is aware of the requirements in 310 CMR 40.0172 for notifying the Department in the event that I/the person(s) or entity(ies) on whose behalf this submittal is made learn(s) that it/they is/are unable to proceed with the necessary response actions.

By: S. Russell Title: Deputy Commissioner for Policy
(signature)

For: Samantha Overton Bussell
(print name of person or entity recorded in Section J or M, as appropriate)

Date: May 29, 2003

If you are submitting either a Tier II Extension Submittal for a Waiver Site or a Tier II Transfer Submittal for a Waiver Site, you may choose to sign the alternative Ability and Willingness Certification found in Section H in place of providing the certification in Section G and the LSP Opinion in Section I.

H. ALTERNATIVE CERTIFICATION OF ABILITY AND WILLINGNESS:

- > If providing a Tier II Extension Submittal for a Waiver Site, the person who signs this certification **MUST** be the person named in Section J, or that person's agent
- > If providing a Tier II Transfer Submittal for a Waiver Site, the person who signs this certification **MUST** be the person named in Section M, or that person's agent.

I attest under the pains and penalties of perjury that (i) I/the person(s) or entity(ies) on whose behalf this submittal is made has/have personally examined and am/is familiar with the requirements of M.G.L. c. 21E and 310 CMR 40.0000; (ii) based upon my inquiry of the Consultant-of-Record for the disposal site which is the subject of this Transmittal Form and of the person(s) or entity(ies) on whose behalf this submittal is made, and my/that person's(s) or entity's(ies) understanding as to the estimated costs of necessary response actions, that/those person(s) or entity(ies) has/have the technical, financial and legal ability to proceed with response actions for such site in accordance with M.G.L. c. 21E, 310 CMR 40.0000 and other applicable requirements; and (iii) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is aware of the requirements in 310 CMR 40.0172 for notifying the Department in the event that I/the person(s) or entity(ies) on whose behalf this submittal is made learn(s) that it/they is/are unable to proceed with the necessary response actions.

By: _____ Title: _____
(signature)

For: _____
(print name of person or entity recorded in Section J or M, as appropriate)

Date: _____

I. LSP OPINION:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

> If Section B of this form indicates that a Tier I or Tier II Classification Submittal which relies upon a previously submitted Phase I Completion Statement is being submitted, this Tier Classification Submittal has been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;

> If Section B of this form indicates that a Phase I Completion Statement or a Tier I or Tier II Classification Submittal which does not rely upon a previously submitted Phase I Completion Statement is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

SECTION I IS CONTINUED ON THE NEXT PAGE



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC-107A

**TIER CLASSIFICATION, TIER II EXTENSION &
TIER II TRANSFER TRANSMITTAL FORM**

Pursuant to 310 CMR 40.0510 and 40.0560 (Subpart E)

Release Tracking Number

3 - 21844

I. LSP OPINION: (continued)

> if Section B of this form indicates that a Tier II Extension Submittal or a Tier II Transfer Submittal is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies with the identified provisions of orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

☐ Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

LSP Name: William R. Swanson LSP #: 6406 Stamp:

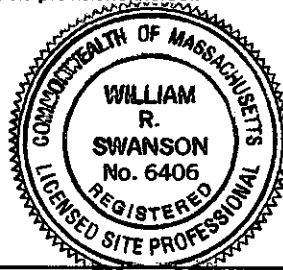
Telephone: 617-452-6274

Ext.:

FAX: (optional) 617-452-8274

Signature:

Date: 5/23/03



J. PERSON MAKING SUBMITTAL: (For Transfer Submittals describe person currently undertaking response actions, not transferee)

Name of Organization: Metropolitan District Commission

Name of Contact: Samantha Overton Bussell

Title: Deputy Commissioner for Policy

Street: 20 Somerset Street

City/Town: Boston

State: MA

ZIP Code: 02108

Telephone: 617-722-5000

Ext.:

FAX: (optional)

K. RELATIONSHIP TO DISPOSAL SITE OF PERSON MAKING SUBMITTAL: (check one)

☒ RP or PRP Specify: ☒ Owner ☒ Operator ☐ Generator ☐ Transporter Other RP or PRP:

☐ Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5)

☐ Any Other Person Making Submittal Specify Relationship:

L. CERTIFICATION OF PERSON MAKING SUBMITTAL:

I, S. Bussell, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. The person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: Title: Deputy Commissioner for Policy

(signature)
For: Samantha Overton Bussell

Date: May 29, 2003

(print name of person or entity recorded in Section J)

Enter address of the person providing certification(s), including Affidavit and Witness Certification where applicable, if different from address recorded in Section J:

Street:

City/Town:

State:

ZIP Code:

Telephone:

Ext.:

FAX: (optional)

YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE, AND YOU MAY INCUR ADDITIONAL COMPLIANCE FEES.

310 CMR: DEPARTMENT OF ENVIRONMENTAL PROTECTION
MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Waste Site Cleanup

NUMERICAL RANKING SYSTEM SCORESHEET
(310 CMR 40.1511)

CLASSIFICATION SUBMITTAL		DISPOSAL SITE SCORE					
Initial Submittal	Re-Classification	II	III	IV	V	VI	TOTAL
X		60	116	15	95	0	286

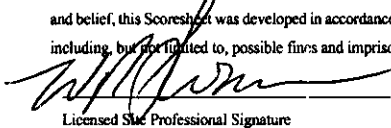
Disposal Site Tier Classification	I			(II)
Permit Category (Tier I Only)	A	B	C	

I. DISPOSAL SITE INFORMATION	
DEP Release Tracking Number(s)	3-0021844
DEP Disposal Site Number(s)	Not Used
UTM Coordinates	N: 4,682,762 E: 330,692

Disposal Site Name	140 Granite Street (Former Sax Property)		
Disposal Site Address	140 Granite Street		
	City: Dorchester	Zip: 02124	

Is the Disposal Site classified Tier I because it is located within the boundaries of a Zone II or Interim Wellhead Protection Area and groundwater concentrations equal or exceed RCGW-1 at the time of Tier Classification pursuant to 310 CMR 40.0520(2)(a)1.?	Yes	No X
Is the Disposal Site classified Tier I because an Imminent Hazard is present at the time of Tier Classification pursuant to 310 CMR 40.0520(2)(a)2.?	Yes	No X

I attest under the pains and penalties of perjury that I have personally completed this Numerical Ranking System Scoresheet, and have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this submittal, and in my professional opinion and judgment based upon: (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief, this Scoresheet was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000. I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

 6406 5/23/03
Licensed Site Professional Signature LSP Registration Number Date
William R. Swanson Camp Dresser & McKee Inc. (617) 452-6274
LSP Name (Printed) Company Name Telephone Number
Samantha Overton Bussell, Deputy Commissioner for Policy (MDC)
Responsible Party, Potentially Responsible Party, or Other Person who will provide certification in accordance with 310 CMR 40.0009.

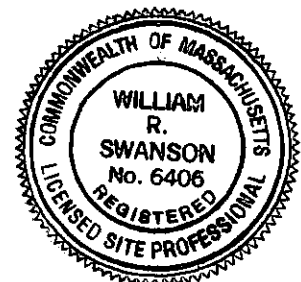
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40.1511 (Continued)

II. EXPOSURE PATHWAYS

II. EXPOSURE PATHWAYS				
Score according to 40.1512 - Exposure Pathway Designation Criteria				
MEDIA	DESIGNATION			
	NONE or NOT APPLICABLE	EVIDENCE OF CONTAMINATION	POTENTIAL EXPOSURE PATHWAY	LIKELY OR CONFIRMED EXPOSURE PATHWAY
A. SOIL (Includes Sediment)	0	(15)	100	150
B. GROUNDWATER	0	(20)	100	150
C. SURFACE WATER (Includes Wetlands)	(0)	20	100	150
D. AIR	(0)	15	100	200

Note: Score only the highest value for each media, i.e., score None or Not Applicable or Evidence of Contamination or Potential Exposure Pathway or Likely or Confirmed Exposure Pathway.

II. (A - D)		Summary Rationale for Section II A - D Values and Phase I Report References
See Section 5.0 of attached Phase II Report and attached notes and data summaries. Site is fenced and paved with asphalt and crushed stone.		

II.E. OHM SOURCES			
Number of OHM Sources	Metal release, PCB release.	1	(2)
		0	(25)
			≥ 3
			50

SECTION II SCORE (A. + B. + C. + D. + E.)					
A.	B.	C.	D.	E.	TOTAL: (15 - 700)
15	20	0	0	25	60

Check here if Section VI has been used to amend the score for this Section of the NRS.

II - A., B., C., D.

Soil/Sediment

1. Site is paved with concrete slabs, asphalt concrete and crushed stone. There is a 9 ± feet high chain link fence all around and all gates are locked and secured mitigating the exposure pathway. Sediment contamination in the river downgradient is less than RC's or background, whichever is higher and may or may not be site related.

Groundwater

1. There are high concentrations of metals in site groundwater but no supply wells in the area.

Surface water

1. It is unlikely that site contaminants are measurable in surface water given the large volume relative to the site and attenuation indicated in downgradient wells.

Air

1. The site is paved and the contaminants of concern are non-volatile.

II. - E.

Number of OHM Sources

There are two sources, metal waste on the western and central regions of the site and PCB's on the eastern end of the site.

40.1511 (Continued)

III. DISPOSAL SITE CHARACTERISTICS

III.A. OHM TOXICITY SCORE	
Highest OHM Toxicity Score From Table III.A. or Worksheet III.A.1. on Following Pages.	
OHM Scored: <u>Lead</u>	Toxicity Score (1 - 80)
Concentration and Media: <u>49,000 mg/kg-soil</u>	<u>50</u>

III.B. MULTIPLE OHMs		
More Than One OHM With an OHM Toxicity Score of ≥ 30	No	Yes
	0	(30)

III.C. OHM MOBILITY and PERSISTENCE	
Score according to 40.1514 - OHM Mobility and Persistence	
OHM Scored: <u>PCB's</u>	Score (0 - 50)
	<u>20</u>

III.D. DISPOSAL SITE HYDROGEOLOGY			
Score according to 40.1515 - Soil Permeability			
DEPTH TO GROUNDWATER (in feet)	SOIL PERMEABILITY		
	Low	Medium	High
> 25	2	4	8
10.1 - 25	4	8	12
5.1 - 10	8	12	16
(0 - 5)	12	(16)	20

(urban fill)

SECTION III SCORE (A + B + C + D)				
A. <u>50</u>	B. <u>30</u>	C. <u>20</u>	D. <u>16</u>	TOTAL: (3 - 180) <u>116</u>

Check here if Section VI has been used to amend the score for this Section of the NRS.	
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40.1511: continued

Table III.A.		OHM TOXICITY SCORE						
OHM		CONCENTRATION (soil/sediment: $\mu\text{g/g}$; surface/groundwater: $\mu\text{g/l}$)						
		≤ 99	100 - 999	1,000 - 9,999	10,000 - 100,000	> 100,000 NAPL < 0.5"	NAPL 0.5" - 12"	NAPL > 12"
Aliphatics	C5-C8	5	15	25	35	45	55	65
	C9-C12	1	10	20	30	40	50	60
	C9-C18	1	10	(20)	30	40	50	60
	C19-C36	1	10	(20)	(30)	40	50	60
Arsenic		(20)	30	40	50	60		
Aromatics	C9-C10	5	15	25	35	45	55	65
	C11-C22	5	15	(25)	35	45	55	65
Benzene		15	25	35	45	55	65	75
Bis(2-ethylhexyl)phthalate		10	20	30	40	50	60	70
Cadmium		(20)	(30)	40	50	60		
Carbon Tetrachloride		20	30	40	50	60	70	80
Chlorobenzene		5	15	25	35	45	55	65
Chromium III		(1)	(10)	20	30	40		
Chromium VI		10	20	30	40	50		
Coal Tar		10	20	30	40	50	60	70
Cyanide		5	15	25	35	45		
1,1 Dichloroethane		10	20	30	40	50	60	70
1,2 Dichloroethane		10	20	30	40	50	60	70
Ethylbenzene		5	15	25	35	45	55	65
Ethylene Dibromide		20	30	40	50	60	70	80
#2 Fuel Oil (virgin product)		5	15	25	35	45	55	65
Gasoline (virgin product)		10	20	30	40	50	60	70
Lead		(20)	30	40	(50)	60		
Mercury		(20)	30	40	50	60	70	80
Methylene Chloride		10	20	30	40	50	60	70
Methyl Ethyl Ketone		1	10	20	30	40	50	60
Methyl Tert Butyl Ether		5	15	(25)	35	45	55	65
Nickel		5	(15)	25	35	45		

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40.1511: continued

Table III.A. - continued							
OHM TOXICITY SCORE							
OHM	CONCENTRATION (soil/sediment: $\mu\text{g/g}$; surface/groundwater: $\mu\text{g/l}$)						
	≤ 99	100 - 999	1,000 - 9,999	10,000 - 100,000	> 100,000 NAPL < 0.5"	NAPL 0.5" - 12"	NAPL > 12"
Phenol	1	10	20	30	40	50	60
PAHs	(10)	(20)	30	40	50	60	70
PCBs	20	30	(40)	50	60	70	80
Tetrachloroethylene	10	20	30	40	50	60	70
Toluene	1	10	20	30	40	50	60
1,1,1 Trichloroethane	5	15	25	35	45	55	65
Trichloroethylene	15	25	35	45	55	65	75
Vinyl Chloride	15	25	35	45	55	65	75
Xylenes	1	10	20	30	40	50	60
Zinc	1	10	(20)	(30)	40		

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40.1511 (Continued)

Use Worksheet III.A.1. to determine the OHM Toxicity Score for OHM not listed in Table III.A.
See 40.1513 for Human Health-Based Toxicity Values for each OHM.

Worksheet III.A.1		OHM TOXICITY SCORE						
HUMAN HEALTH-BASED TOXICITY VALUE	CONCENTRATION							
	Use $\mu\text{g/g}$ for Soil and $\mu\text{g/l}$ for Surface Water and Groundwater							
	≤ 99	100 - 999	1,000 - 9,999	10,000 - 100,000	$> 100,000$ NAPL $< 0.5''$	NAPL 0.5" - 12"	NAPL $> 12''$	
< 5	1	10	20	30	40	50	60	
5 - 19	5	15	25	35	45	55	65	
20 - 29	10	(20)	30	40	50	60	70	
30 - 39	15	25	35	45	55	65	75	
40 - 50	(20)	30	40	50	60	70	80	

III.A.1.		OHM and Concentrations Used in Section III.A.1.		
OHM	Human Health-Based Toxicity Value	Concentration (Soil - $\mu\text{g/g}$)	Concentration (Water - $\mu\text{g/l}$)	OHM Toxicity Score
Antimony	40	86.9	18.4	20
Silver	25	322	---	20

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40.1511 (Continued)

IV. HUMAN POPULATION AND LAND USES

IV.A. HUMAN POPULATION				
Residential Population Within ½ Mile	None 0	1 - 99 5	100 - 999 10	≥ 1,000 (15)
Institutions Within 500 feet	None (0)		One or More 10	
On-Site Workers	None (0)	1 - 99 5	100 - 999 10	≥ 1,000 15

IV.B. AQUIFERS		
Sole Source Aquifer	No	Yes
Name: _____	(0)	25
Potentially Productive Aquifer	No (0)	Medium or High 15

IV.C. WATER USE					
Proximity of Disposal Site to Public Drinking Water Supply Source	Not Applicable (NA) (0)			Zone A 20	Zone II, IWPA, or SW Intake ≤ 400' 50
Persons Served by Public Drinking Water Supply	NA (0)	25 - 999 5	1,000 - 4,999 10	5,000 - 49,999 20	≥ 50,000 25
Private Water Supplies Within 500 Feet	None (0)		Commercial Industrial 10	Agriculture Residential (Not Ingested) 15	Drinking Food Processing 25
Alternative Public Water Supply Available (Viable Public Water Supply in Disposal Site Community and Public Water Connection ≤ 500 Feet from Site)	Yes (0)			No 25	

SECTION IV SCORE (A + B + C)			
A. 15	B. 0	C. 0	TOTAL: (0 - 205) 15

Check here if Section VI has been used to amend the score for this Section of the NRS.

40.1511 (Continued)

V. ECOLOGICAL POPULATION

V.A. ENVIRONMENTAL RESOURCE AREAS			
RESOURCE	LOCATION		
Area of Critical Environmental Concern	> 500' from Site 0	≤ 500' from Site (20)	On-Site 30
Species of Special Concern, Threatened or Endangered Species Habitat	> 500' from Site (0)	On-Site or ≤ 500' from Habitat 30	
Wetlands, Certified Vernal Pool, or Outstanding Resource Water	> 100' from Site (0)	≤ 100' from Site 20	On-Site 30
Fish Habitat	> 500' from Site 0	≤ 500' from Site (20)	On-Site 30
Protected Open Space (Local/State/Federal/Trustee)	> 500' from Site 0	≤ 500' from Site (20)	On-Site 30

SCORE SECTION V.B. ONLY IF SECTION V.A. SCORE IS ≥ 30.

V.B. ENVIRONMENTAL TOXICITY SCORE	
<p><i>Highest Environmental Toxicity Score</i> <i>From Table V.B. or Worksheet V.B.1. on Following Pages.</i></p>	
OHM Scored: <u>PCB's</u>	Toxicity Score (1 - 35)
Concentration and Media: <u>330 mg/kg, Soils</u>	<u>35</u>

SECTION V. SCORE (A. + B.)		
A. <u>60</u>	B. <u>35</u>	TOTAL: (0 - 185) <u>95</u>

Check here if Section VI has been used to amend the score for this Section of the NRS.	
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40.1511 (Continued)

Table V.B. ENVIRONMENTAL TOXICITY SCORE					
OHM	CONCENTRATION (soil/sediment: $\mu\text{g/g}$; surface/groundwater: $\mu\text{g/l}$)				
	< 1	1 - 99	100 - 999	1,000 - 9,999	$\geq 10,000$
Arsenic	5	(10)	15	20	25
Benzene	0	1	5	10	15
Bis(2-ethylhexyl)phthalate *	5	10	15	20	25
Cadmium	10	15	(20)	25	30
Carbon Tetrachloride	0	1	5	10	15
Chlorobenzene *	5	10	15	20	25
Chromium III	1	5	(10)	15	20
Chromium VI	5	10	15	20	25
Coal Tar *	5	10	15	20	25
Cyanide	5	10	15	20	25
1,1 Dichloroethane *	5	10	15	20	25
1,2 Dichloroethane	0	1	5	10	15
Ethylbenzene	0	1	5	10	15
Ethylene Dibromide *	5	10	15	20	25
#2 Fuel Oil (virgin product) *	1	5	10	15	20
Gasoline (virgin product) *	5	10	15	20	25
Lead	5	10	15	20	(25)
Mercury	15	(20)	25	30	35
Methylene Chloride *	5	10	15	20	25
Methyl Ethyl Ketone *	5	10	15	20	25
Methyl Tert Butyl Ether *	1	5	10	(15)	20
Nickel	1	5	(10)	15	20
Phenol	0	1	5	10	15
PAHs *	5	10	15	20	25
PCBs	15	20	25	30	(35)
Tetrachloroethylene	0	1	5	10	15
Toluene	0	1	5	10	15
1,1,1 Trichloroethane	0	1	5	10	15
Trichloroethylene	0	1	5	10	15

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Table V.B.		ENVIRONMENTAL TOXICITY SCORE				
<i>OHM</i>		<i>CONCENTRATION</i> (soil/sediment: $\mu\text{g/g}$; surface/groundwater: $\mu\text{g/l}$)				
		< 1	1 - 99	100 - 999	1,000 - 9,999	$\geq 10,000$
Vinyl Chloride	*	5	10	15	20	25
Xylenes	*	5	10	15	20	25
Zinc		1	5	10	15	(20)

* Scores derived by default methods 40.1516(2).

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40.1511 (Continued)

VI. MITIGATING DISPOSAL SITE-SPECIFIC CONDITIONS

VI.	MITIGATING DISPOSAL SITE-SPECIFIC CONDITIONS
Disposal site-specific conditions that warrant amending the site score. Changes directly related to NRS Sections or Subsection scores may not reduce the score more than the relevant subsection value assigned for the disposal site in that subsection. Section VI must reference specific pages of the Phase I. Section VI may not exceed ± 50 Points and may be scored only in 5-point increments. Attach additional pages as necessary.	
Disposal Site Score Amendment (Not to Exceed ± 50 Points)	Score <div style="text-align: center;">0</div>

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40.1513 Human Health-Based Toxicity Values and Scores

(1) The Human Health-Based Toxicity Values found in 310 CMR 40.1513(2) shall be used to score OHM not included in Table III.A. of the Scoresheet. If a site-related OHM is not listed in 310 CMR 40.1513(2) use the Relative Toxicity Value Matrix [310 CMR 40.1513(3)] to derive a OHM-specific Toxicity Value. Correlate the value derived using 310 CMR 40.1513(3) with the OHM concentration to determine the OHM Toxicity Score using Worksheet III.A.1. in the Scoresheet. Record each OHM name, Toxicity Value, concentration and Toxicity Score in Table III.A.1 of the Scoresheet.

(2) Human Health-Based Toxicity Values

40.1513(2) Human Health-Based Toxicity Values and Scores							
OHM	CAS Number	Chronic Oral RfD mg/kg/d	Oral Cancer Slope Factor 1/(mg/kg/d)	CLASS	Inhalation Cancer Slope Factor 1/(mg/kg/d)	CLASS	HUMAN TOXICITY VALUE
Acenaphthene	83329	6.0e-02					8
Acenaphthylene	208968			D		D	25
Acephate	30560191	4.0e-03	8.7e-03	C		ND	30
Acetaldehyde	75070						25
Acetone	67641	1.0e-01		D		D	8
Acetone Cyanohydrin	75865	8.0e-04					40
Acetonitrile	75058	6.0e-03		D			25
Acetophenone	98862	1.0e-01		D		D	8
Acetyl Chloride	75365			D		D	25
Acrolein	107028	2.0e-02		C		C	25
Acrylamide	79061	2.0e-04	4.5e+00	B2	4.5e+00	B2	46
Acrylic acid	79107	5.0e-01					4
Acrylonitrile	107131	1.0e-03	5.4e-01	B1	2.4e-01	B1	34
Alachlor	15972608	1.0e-02	8.0e-02	B2		B2	25
Aldicarb	116063	1.0e-03		D		D	25
Aldrin	309002	3.0e-05	1.7e+01	B2	1.7e+01	B2	50
Aliphatics C5-C8		6.0e-02					8
C9-C12		6.0e-01					4
C9-C18		6.0e-01					4
C19-C35		6.0e+00					4
Alkanes/Alkenes							25
Allyl Alcohol	107186	5.0e-03					25
Allyl Chloride	107051	5.0e-02		C		C	22
Aluminum phosphide	20859738	4.0e-04					40
Ametryn	834128	9.0e-03					18
Aminopyridine, 4-	504245	2.0e-05		D		D	40
Ammonia	7664417						25
Ammonium Acetate	631618			D		D	25
Aniline	62533		5.7e-03	B2		B2	22
Anthracene	120127	3.0e-01		D		D	4
Antimony	7440360	4.0e-04					(40)
Antimony Potassium Tartrate	28300745	9.0e-04					40
Antimony Trioxide	1309644	4.0e-04					40
Aroclor 1016	12674112	7.0e-05	7.7	B2		B2	50
Aromatics C9-C10		3.0e-02					18
C11-C22		3.0e-02					18
Arsenic	7440382	3.0e-04	1.5e+00	A	5.0e+01	A	46
Asbestos	1332214			A		A	34

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40.1513: continued

40.1513(2) Human Health-Based Toxicity Values and Scores							
OHM	CAS Number	Chronic Oral RfD mg/kg/d	Oral Cancer Slope Factor 1/(mg/kg/d)	CLASS	Inhalation Cancer Slope Factor 1/(mg/kg/d)	CLASS	HUMAN TOXICITY VALUE
Phosmet	732116	2.0e-02					18
Phosphine	7803512	3.0e-04		D		D	40
Phosphoric Acid	7664382						25
Phosphorus, white	7723140	2.0e-05		D		D	40
Phthalic Anhydride	85449	2.0					4
Picloram	1918021	7.0e-02					8
Polyaromatic Hydrocarbons (TOTAL)							25
Prometon	1610180	1.5e-02					18
Prometryn	7287196	4.0e-03					25
Pronamide	23950585	7.5e-02					8
Propyl Alcohol	71238						25
Propylene Glycol Monomethyl Et	1569024	7.0e-01					4
Propylene Oxide	75569		2.4e-01	B2	1.3e-02	B2	28
Pyrene	129000	3.0e-02		D		D	18
Pyridine	110861	1.0e-03					25
Quinoline	91225		1.2e+01	C		C	44
Quinone	106514						25
Resorcinol	108463						25
Ronnel	299843	5.0e-02					8
Rotenone	83794	4.0e-03					25
Selenious Acid	7783008	5.0e-03		D		D	25
Selenium	7782492	5.0e-03		D		D	25
Selenium Sulfide	7488546			B2		B2	28
Silver	7440224	5.0e-03		D		D	(25)
Simazine	122349	5.0e-03	1.2e-01	C		C	32
Sodium Cyanide	143339	4.0e-02					18
Styrene	100425	2.0e-01	3.0e-02	B2	2.0e-03	B2	20
Sulfuric Acid	7664939						25
TCDD, 2,3,7,8-	1746016		1.5e+05	B2	1.5e+05	B2	44
Tebuthiuron	34014181	7.0e-02					8
Terbufos	13071799	2.5e-05					40
Terbutryn	886500	1.0e-03					25
Tetrachloroethane, 1,1,1,2-	630206	3.0e-02	2.6e-02	C	2.6e-02	C	22
Tetrachloroethane, 1,1,2,2-	79345		2.0e-01	C	2.0e-01	C	28
Tetrachloroethylene	127184	1.0e-02	5.1e-02	B2		B2	25
Tetrachlorophenol, 2,3,4,6-	58902	3.0e-02					18
Tetraethyl Lead	78002	7.0e-07					40
Tetrahydrofuran	109999	1.8e-01					4

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[illegible]

Reference List

*Immediate Response Action Completion Report: Neponset River Trail, Milton and
Dorchester, Massachusetts (DEP RTN 3-18465). Camp Dresser & McKee Inc., June 2000.*

*Phase I Initial Site Investigation Relative to Oil and Hazardous Materials: Former Sax
Property, 140 Granite Avenue, Dorchester, Massachusetts. CDW Consultants, Inc.,
February 7, 2002.*

*Phase II Comprehensive Site Assessment: 140 Granite Avenue, Dorchester, Massachusetts.
CDW Consultants, Inc., April 30, 2002.*

*Phase II Comprehensive Site Assessment and Phase III Identification, Evaluation and
Selection of Remedial Action Alternatives Report: Metropolitan District Commission, Former
T Equipment Corporation, 170 Granite Avenue, Dorchester, Massachusetts (DEP Release
Tracking Number 3-12984). Tighe & Bond, September 2002.*

*Summary of Reports: Metropolitan District Commission, 62R Hilltop Street, Dorchester,
Massachusetts. Tighe & Bond, December 2002.*

Attachments

1. Soil, Groundwater, Data Summaries
2. Phase I & II Reports

Sax Summary of Maximum Concentrations

Parameter	Soil			Groundwater		
	Maximum Concentration	Location(s)	Date(s)	Depth(s)	Maximum Concentration	Location(s)
Extractable Petroleum Hydrocarbons						
C9-C18 Aliphatics	3000	CDW-7	5/27/02	0-2	4.8	CDW-7
C19-C36 Aliphatics	6700	B-26	12/12/01	4-8	14	CDW-7
C11-C22 Aromatics	2900	CDW-7	5/27/02	0-2	9.7	CDW-7
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	8.9	B-46	3/27/02	4-8		
Anthracene	27	B-46	3/27/02	4-8		
Benzo(a)anthracene	22	B-46	3/27/02	4-8		
Benzo(a)pyrene	14	B-46	3/27/02	4-8	0.0072	CDW-3
Benzo(b)fluoranthene	14	B-46	3/27/02	4-8	0.0075	CDW-3
Benzo(g,h,i)perylene	6.4	B-46	3/27/02	4-8		
Benzo(k)fluoranthene	8.4	B-46	3/27/02	4-8		
Chrysene	17	B-46	3/27/02	4-8		
Dibenz(a,h)anthracene	2.1	B-46	3/27/02	4-8		
Fluoranthene	52	B-46	3/27/02	4-8	0.011	CDW-3
Fluorene	10	B-46	3/27/02	4-8		
Indeno(1,2,3-cd)pyrene	7.4	B-46	3/27/02	4-8		
Methylanthracene, 2-	3.1	B-46	3/27/02	4-8		
Phenanthrene	69	B-46	3/27/02	4-8	0.0096	CDW-3
Pyrene	46	B-46	3/27/02	4-8	0.012	CDW-3
Polychlorinated Biphenyls						
Aroclor 1016	ND	various	various	various		
Aroclor 1221	ND	various	various	various		
Aroclor 1232	ND	various	various	various		
Aroclor 1242	40	B-33	5/25/02	0-1		
Aroclor 1248	80	B-33	5/25/02	1-3		
Aroclor 1254	42	B-32	5/25/02	0-2		
Aroclor 1260	330	A-3	4/24/03	0-1		
Metals						
Antimony	86.9	CDW-6	5/27/02	0-2	0.0184	CDW-1
Arsenic	35.7	B-10	12/12/01	0-4		
Cadmium	381	B-19	12/12/01	0-4	0.0106	CDW-8
Chromium	165	B-19	12/12/01	0-4	0.0032	CDW-2
Copper	47,400	CDW-6	5/27/02	0-2	0.193	CDW-8
Lead	49,000	B-10	12/12/01	0-4	0.0676	CDW-1
Mercury	37	B-1	12/12/01	0-4		
Nickel	193	B-19	12/12/01	0-4	0.229	CDW-1
Selenium	21.7	CDW-6	5/27/02	0-2		
Silver	322	B-19	12/12/01	0-4		
Zinc	54,500	B-10	12/12/01	0-4	1.95	CDW-3
Volatile Organic Compounds						
cis-1,2-Dichloroethene					0.0017	CDW-1
Methyl-tert-butyl-ether					1.2	CDW-6

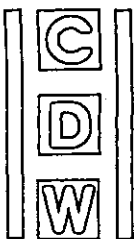
RECEIVED

JUN 05 2003

DEP

NORTHEAST REGIONAL OFFICE

Bold values exceed standard.
All results listed in ppm.
ND = Not Detected



CDW CONSULTANTS, INC.
CIVIL & ENVIRONMENTAL ENGINEERS

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**PHASE I INITIAL SITE INVESTIGATION
Relative to Oil and Hazardous Materials**

**Former Sax Property
140 Granite Avenue
Dorchester, MA**

Prepared for

Metropolitan District Commission
20 Somerset Street
Boston, MA 02108

February 7, 2002

CDW Project #: 900.00

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EXECUTIVE SUMMARY

CDW Consultants, Inc. (CDW), on behalf of the Metropolitan District Commission (MDC), has conducted a Phase I Initial Site Investigation of the property at 140 Granite Avenue in Dorchester, Massachusetts (Site). The purpose of the investigation was to evaluate the potential impacts of previous Site uses upon the subsurface environment at the Site. This site investigation was performed in accordance with Massachusetts General Law Chapter 21E, and the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000.

The Site is occupied by a vacant parcel of land, and is owned by Richard G. Schwartz. Most of the Site is either paved or covered with concrete, and the foundation of a former building is located on the northwestern corner of the Site. There are currently no full-time workers at the Site.

The land surrounding the Site includes Hilltop Street to the north, Granite Avenue to the west, a driveway and machinery storage area to the south, and industrial buildings and an automobile repair business to the east. The Site was previously occupied by a metal refining shop and scrap metal recycling yard, which was present since the early 1900's. The building, which was served by the public water supply and the municipal sewage disposal system, was demolished in early 2001 after it was damaged by fire.

CDW reviewed State and Federal databases for information regarding spills, releases, and other compliance issues within the immediate vicinity of the Site. Environmental issues and listed disposal sites were identified for the Site and at nearby areas. The Massachusetts Department of Environmental Protection (DEP) has listed the Site under spill number N93-1033. Several releases have occurred at adjacent or nearby properties. The Site is not listed as a disposal site with the United States Environmental Protection Agency (EPA).

CDW completed a subsurface investigation at the Site in November and December 2001, and January 2002, which consisted of soil and groundwater sampling and analysis, monitoring well installation, and a groundwater flow survey. CDW also collected samples of debris from the demolition of the former Site building to characterize this material for disposal. The results of soil

sample analysis revealed concentrations of several compounds which exceeded the applicable Reportable Concentrations (RCs) under the MCP. These included: all three Extractable Petroleum Hydrocarbon (EPH) fractions, several polynuclear aromatic hydrocarbons (PAHs), and the heavy metals arsenic, cadmium, lead, copper, zinc, and silver. Polychlorinated biphenyls (PCBs) were also detected in surficial soil at concentrations exceeding applicable RCs and the Imminent Hazard threshold of 10 ppm specified in 310 CMR 40.0321(2). However, since the Site is adequately secured with fencing and signs, the PCB concentrations do not represent an Imminent Hazard at this time. PCBs were also detected in building debris analyzed. The PAHs detected in the soil samples were determined to be exempt from the MCP reporting requirements due to observed coal and/or ash in soil, and the recent fire at the Site. Volatile Petroleum Hydrocarbons (VPH) and one Volatile Organic Compound (VOC) were also detected in soil below the applicable RCs.

Analysis of groundwater samples revealed concentrations of cyanide and soluble zinc in monitoring well CDW-3, and soluble lead and zinc in monitoring well CDW-1 which exceeded the applicable RCs. Monitoring well CDW-3 is located on the south-central portion of the Site and monitoring well CDW-1 is located on the eastern portion of the Site. Groundwater was encountered onsite during drilling at between 3.5 and 9 feet below grade. Concentrations of cyanide appear to be limited to the southern portion of the Site. Concentrations of several metals were found to be present throughout the Site. Based on gauging data, the groundwater flow direction at the Site is to the east/southeast towards the Neponset River.

The outcome of this Phase I Initial Site Investigation is that:

1. Several compounds were detected on-site at concentrations which exceeded the applicable RCs, and represent a 120-day reporting condition under the MCP.
2. Further subsurface investigation will be required to define the extent of soil contamination from heavy metals and EPH compounds throughout the Site, and groundwater contamination from cyanide and soluble metals in the vicinity of monitoring wells CDW-1 and CDW-3.

3. Further analysis of surficial soil samples will also be required to determine the extent of shallow PCB contamination.
4. Further assessment and/or response actions will be required to achieve a condition of No Significant Risk at the Site.

PHASE I INITIAL SITE INVESTIGATION SUMMARY

CDW Consultants, Inc. (CDW), on behalf of the Metropolitan District Commission (MDC), has conducted a Phase I Initial Site Investigation (Phase I) of the property located at 140 Granite Avenue in Dorchester, Massachusetts ("Site"). The Site location is shown on Figure 1 in Appendix A.

1.0 Introduction

The investigation contained herein consisted of a Site reconnaissance, interviews with knowledgeable personnel, and an evaluation of the past and present oil and hazardous materials used and stored at the Site. CDW also performed a limited subsurface investigation of the property, which included the advancement of soil borings, installation of groundwater monitoring wells, soil and groundwater sampling, and a groundwater elevation survey. CDW also collected samples of debris from the demolition of the former Site building to characterize this material for disposal. This Phase I investigation was conducted between November 2001 and January 2002.

1.1 Purpose

The purpose of the Phase I Initial Site Investigation was to determine whether there are, or have been, releases/threats of releases of oil and/or hazardous materials at the Site, and to evaluate the potential impacts of these releases on the environmental conditions at the Site and vicinity. This Site investigation was performed in accordance with Massachusetts General Law (MGL) Chapter 21E, and the Massachusetts Contingency Plan (MCP), 310 CMR 40.0000.

1.2 Summary of Preliminary Response Actions

No Preliminary Response Actions relative to MGL Chapter 21E have been performed at the Site. A spill (ID# N93-1033) occurred at the Site in August 1993, during the removal of an underground gasoline storage tank.

2.0 General Site Information

The Site is located at 140 Granite Avenue in Dorchester, MA. The property, an approximate 9-acre parcel, is identified as Ward 16, Parcel 4290 on the Boston Tax Assessor's Map. The vicinity of the disposal Site appears on the U.S. Geological Survey (U.S.G.S.) Boston South, Massachusetts (1987) Quadrangle Map at U.T.M. coordinates 330,692 mE, 4,682,762 mN, and Latitude 42°16' 43"N, Longitude 71°03' 11"W. A Site Location Map showing 500 foot and ½-mile radii is presented as Figure 1 in Appendix A.

2.1 Site Location and Description

For the purpose of this Phase I investigation, the boundaries of the Site are defined as the property boundary for 140 Granite Avenue.

On November 21, 2001, CDW performed a site reconnaissance. The foundation of a former building is located on the northwestern portion of the Site. Bricks, concrete, and other construction demolition debris remain in piles on the former building foundation. Four (4) small concrete-block sheds remain at the Site. Two are on the western portion of the Site adjacent to a truck weighing scale and concrete storage bins. The other two sheds are located on the eastern edge of the Site. A railroad spur and former concrete storage bins for scrap metal are located on the southwestern portion of the Site. Approximately ⅔ of the Site is paved. The eastern portion of the Site is mostly unpaved except for an area of concrete on the far eastern portion of the Site. No areas of stressed vegetation were noted during the Site visit. Several areas of apparent oil staining were noted on the foundation of the former building. Two, apparently empty, 55-gallon drums were noted adjacent to a piece of machinery in that area. Ten (10) empty 55-gallon drums were observed in one of the concrete storage bins. Four (4) additional 55 gallon drums were observed behind a concrete retaining wall on the southeastern Site boundary. Other debris, such as empty buckets, wooden pallets, an empty 55 gallon drum, and tires were observed on the Site. Several sewer manholes and catch basins were observed throughout the Site. A fill pipe for a possible underground storage tank (UST) or above ground storage tank (AST) was observed on the northwestern portion of the Site. Access to the basement underneath this pipe was not

provided at the time of CDW's Site inspection, therefore the presence or absence of a UST or AST at this location could not be confirmed. Eight (8) existing monitoring wells previously installed by others are located on the Site. Figure 2 in Appendix A shows the Site and major Site features.

According to the FEMA Flood Insurance Rate Map (250286 0023 D), the majority of the Site, except for the northwestern corner, is located within a Zone A3. A Zone A3 is defined as an area of 100 year flood.

2.2 Surrounding Land Use Description

The surrounding land uses consist of New England Millwork, Inc. to the east at 60 Hilltop Street, T Equipment Corporation and Schlager's Auto Body to the southeast at 170 Granite Avenue and 62R Hilltop Street, respectively; a former railroad and junk yard to the south; the Martin Playground and a residential area to the north; and a medical and residential building to the west across Granite Avenue. There are no full-time workers at the Site. Martin Playground is located approximately 50 feet north of the Site across Hilltop Street.

According to the City of Boston, the Site is zoned as "CL," commercial land. Based on information obtained by CDW from the Massachusetts Institute for Social and Economic Research, CDW estimates the population within a ½-mile radius of the Site is estimated to be 4,000 persons.

2.3 Natural Resources Review

CDW contacted the Boston Water and Sewer Commission for information on water supplies to the Site area. The area surrounding the Site receives municipal water and sewer services. The City of Boston obtains its drinking water from the MWRA's Quabbin Reservoir in western Massachusetts. According to the Boston Health Department, no private water supply wells are located within 500 feet of the Site.

RTN 3-15333, T Equipment Corp., 170 Granite Avenue, Dorchester

The DEP file for this property contained a letter from Cushing Environmental Management dated September 23, 1997. According to the letter, RTN 3-15333 was assigned due to a release of five gallons of concrete sealer from a 55 gallon drum onto a gravel pathway. The release was immediately cleaned up and approximately ½ cubic yard of affected soil was placed into 55-gallon drums for off-site disposal. Surficial soil samples in the area of the release were analyzed for total petroleum hydrocarbons (TPH) after the cleanup which revealed concentrations of 1,500 and 2,100 parts per million (ppm).

RTN 3-18516, Schlager's Auto Body, 62R Hilltop Street, Dorchester

Three USTs, including two 2,000 gallon gasoline, and a 2,000 gallon diesel UST were removed from the property in 1988. CDW completed a Phase I Initial Site Investigation (Phase I) for this property in July 1999. The Phase I Investigation included the installation of four monitoring wells and three soil borings. Extractable petroleum hydrocarbons (EPH) and several polynuclear aromatic hydrocarbons (PAHs) in soil exceeded MCP reportable concentrations, and concentrations of phenanthrene in two monitoring wells exceeded reportable concentrations. A ground-penetrating radar survey was completed which revealed no existing USTs. Groundwater at this property was determined to be flowing in a southerly direction towards the Neponset River. The Site was reported to the DEP as a 120 day release and assigned release tracking number 3-18516.

CDW completed a Downgradient Property Status (DPS) Opinion for this property in July 1999. The DPS indicated that underground storage of gasoline and diesel existed on the adjacent property to the west (T Equipment Corp.), and based on soil and groundwater data from the Phase I, the contamination appears to extend from the former UST area on the adjacent property into this property.

RTN 3-1984, Brush Hill Transportation, 170R Granite Avenue, Dorchester

This property is also known as 62R Hilltop Street, and is currently occupied by Schlager's Auto Body. A subsurface investigation was completed by Rizzo Associates in September 1988. Three monitoring wells were installed as part of this investigation. Several VOCs including trichloroethene (210 ppm), tetrachloroethene (4,500 ppm), and 1,2-dichloroethene (170 ppm) were detected in one groundwater sample. TPH was detected in two of the monitoring wells at concentrations as high as 22.1 ppm. Three USTs were removed from this property and TPH was detected at concentrations of up to 5,032 milligrams per kilogram (mg/kg) in soil samples collected within the excavation. Tetrachloroethene was also detected at 500 micrograms per kilogram (ug/kg). The DEP subsequently listed the Site as a Location To Be Investigated, and assigned release tracking number 3-1984 to the release. Kurz prepared a Class A-2 Response Action Outcome (RAO) Statement for this site dated September 27, 1997. A Class A-2 RAO was submitted due to residual TPH and VOCs in groundwater, which did not meet background conditions.

Spills Database, Dated May 10, 2001

The following spill incidents are listed in the database as of May 10, 2001 within the immediate vicinity of the Site. These incidents occurred prior to enactment of the 1993 MCF:

<u>Address</u>	<u>Material</u>	<u>Quantity</u>	<u>Date</u>	<u>Approx. Distance</u>
140 Granite Ave.	gasoline	unknown	8/2/93	Site
Martin Playground	battery acid	51-100 gal.	9/11/91	50 ft/N

Additional information was available at the DEP for the spill at Martin Playground. Approximately 100 batteries were found buried about one foot below grade during groundbreaking activities for the playground. It was estimated that the batteries were disposed of in the mid 1960s. The release was assigned spill ID N91-1277, and Weston and Sampson was hired to oversee the assessment and cleanup. Eight soil borings were advanced in the release area which revealed lead in soil at

concentrations as high as 64,800 ppm. Two monitoring wells were also installed on Hilltop Street in September 1991, and lead was detected at 0.009 milligrams per liter (mg/l) in groundwater. Approximately 1,237 tons of soil were removed from this property between December 10 and 17, 1991. This case is currently closed and no further action is required by the DEP.

RCRA Generators List, Dated August 8, 2001

CDW reviewed the RCRIS Database for information on the Site and surrounding properties. No properties within ¼ mile of the Site are listed as RCRA generators.

2.4.2 U.S. Environmental Protection Agency (EPA)

CDW reviewed EPA database information relative to the Site and surrounding area which is summarized next.

National Priority List (NPL), Dated September 13, 2001

CDW reviewed the NPL database. Based on this database, no NPL sites are located within one mile of the Site.

CERCLIS, Dated September 13, 2001

CDW reviewed the CERCLIS database. Based on CDW's review of this database, no CERCLIS sites are located within ½ mile of the Site.

RCRA Treatment, Storage and Disposal (TSD) List, Dated August 8, 2001

CDW reviewed information provided by the EPA which indicated no TSD facilities are currently located within ½ mile of the Site.

3.0 Site History

CDW reviewed historical information obtained from various local offices and state agencies for the Site and vicinity. This included a review of historical city records, Sanborn fire insurance maps, aerial photographs, past site ownership records, and previous site use information. The Site history research is summarized below.

3.1 Ownership and Operations History

CDW reviewed available files at the City of Boston municipal offices. According to the City of Boston Tax Assessor's Office, the previous Site owner of record was Lawrence J. Sax. The Site is currently owned by Richard G. Schwartz. Previous Site ownership information is summarized in the table below:

<u>Date</u>	<u>Owner</u>	<u>Use</u>
1913	unknown	metal storage
1940	Samual Schlesinger	Roxbury Iron & Metal Works
1964	Herman Nick Realty Corp.	junkyard/scrap metal
1977	Lawrence J. Sax	J. Sax & Co. Inc.
1995	Lawrence J. Sax	J. Sax & Co. Inc.

CDW reviewed available maps and records at local and state agencies, and conducted interviews for information regarding historical uses of the Site and surrounding area. CDW obtained aerial photographs of the Site from the Massachusetts Highway Department in Boston for the years 1938, 1951, 1969, and 1978. In the 1938 aerial photograph, the Site appeared to be developed for commercial use, and the former Site building was visible on the northwestern portion of the Site. The existing building to the east was also visible on this photograph. Commercial/industrial buildings were visible to the south and southeast of the Site. Small buildings were visible to the north and northwest, and the area to the north was primarily undeveloped.

The 1951 photo revealed the Site was almost completely occupied by junk and scrap metal. The surrounding area appeared to be the same as the 1938 photograph. The 1951 aerial photo is included as Figure 4 in Appendix A.

The 1969 photograph was similar to the 1951 photograph except for additional development in the commercial areas to the east and southeast of the Site. Again, what appeared to be scrap metal was stored throughout the Site. The 1978 photo has a very small scale and is difficult to interpret. No additional development was noted in the surrounding area, and the Site itself appeared to be mostly cleared of debris. The 1969 aerial photo is included as Figure 5 in Appendix A.

On November 1, 2001, CDW reviewed Sanborn fire insurance maps and historical atlases at the Massachusetts State House Library to determine the history of the Site area. The available information documented the predominantly industrial use of the Site as early as 1913. The Site has been used for metal refining and metal storage since the early 1900's. The surrounding properties have been mixed commercial and residential in use.

The Sanborn map dated 1925 was not complete for the Site and most of the surrounding area. The area to the west of the Site at 161 Granite Avenue was shown to be occupied by residential buildings, a carpet cleaning company, and a railroad station.

According to the 1950 Sanborn map, the Site was occupied by the Roxbury Iron & Metal Company. A metal shop and metal refining operation were located in the building at the Site. Scrap iron piles were located on the southwestern portion of the Site near a railroad spur and hoisting engine. A railroad and stone cutting business were located to the south of the Site. Three underground, unused fuel oil tanks are shown approximately 50 feet south of the Site. A woodworking shop was located adjacent to and east of the Site. Shown on this property was a "waste pocket" and an underground gasoline tank. The Atlantic Ice and Coal Company was located southeast of the Site at 170 Granite Avenue. A U.S. Government Aeronautic Radio Station and a painting shop were shown adjacent to and north of the Site. The 1950 Sanborn Insurance map is included as Figure 6 in Appendix A.

A review of the 1964 and 1990 Sanborn maps revealed no significant changes in the Site use except for a gasoline tank located on the western side of the Site in 1964, and a welding yard in the central portion of the Site. The occupant of the Site was the Herman Nick Co. Inc., however the Site operations appeared to be the same as in 1950. The area to the west and south did not change except for the underground fuel oil storage to the south of the Site was now above ground and the stone cutting facility was gone by 1990. A boat yard was located to the southeast of the Site at 170 Granite Avenue. The 1990 Sanborn Insurance map is included as Figure 7 in Appendix A.

On November 2, 2000, a fire occurred at the former building at the Site. On-Scene coordinators from the US Environmental Protection Agency (EPA) and Massachusetts Department of Environmental Protection (DEP) were on-site due to the presence of several drums in and around the warehouse. Members of the Roy F. Weston, Inc. Superfund Technical Assessment and Response Team were also on site to assess any potential releases from drums. The building was subsequently destroyed. A memorandum dated November 29, 2000 entitled, "Site Activities Conducted on 2 November 2000" summarized the response actions and sampling which was conducted on-site as a result of the fire. This memorandum is included in Appendix D.

3.2 Release History

A spill is documented for the subject Site, and occurred before the implementation of the 1993 MCP. This release has spill ID N93-1033, and occurred on August 2, 1993, during the removal of an underground gasoline tank. No additional information was available regarding this release.

3.3 Waste Management History

The Site is not listed as a RCRA Hazardous Waste Generator. The Site operated as a scrap metal recycling yard and metal refinery for at least 80 years. No waste management records were found regarding the Site. CDW observed the presence of several empty drums on-site

during the site reconnaissance, and drums of unknown contents were observed at the Site at the time of the fire in November 2000.

3.4 Environmental Permits & Compliance History

CDW reviewed records at the City of Boston Fire Department Fire Prevention Office for the Site. According to these records, a 2,000 gallon diesel UST and a 1,000 gallon gasoline UST were located at the Site in 1986. A permit was issued on July 30, 1993, to remove two USTs from the Site. The dimensions of these USTs on the permit correspond to the 2,000 gallon and 1,000 gallon tanks previously located at the Site. Information on the permit also indicated that evidence of soil contamination was observed during the removal. This appears to be related to the spill (N93-1033) that was reported on August 2, 1993. No confirmatory soil sampling results were available for the UST removals. A copy of the available Fire Department UST records is included in Appendix E.

The FirstSearch Technology report identified one registered UST site which is located adjacent and southeast of the Site at 170 Granite Avenue. This property (T Equipment Corporation) previously contained a 10,000 gallon diesel UST, two 5,000 gallon gasoline USTs, and a 1,000 gallon UST with unknown contents. A 275 gallon waste oil UST is currently in use at this property. Previous underground storage was also located at the adjacent property at 62R Hilltop Street. One 2,000 gallon diesel UST and two 2,000 gallon gasoline USTs were located at this property from the early 1970's until 1988.

3.5 Massachusetts General Law (MGL) Chapter 21E Response Action Permits

A spill is documented for the subject Site, and occurred before the implementation of the new MCP. This release has spill ID N93-1033, and occurred on August 2, 1993, during the removal of an underground gasoline tank. No additional information was available regarding this release.

4.0 Hydrogeologic Characteristics

CDW evaluated information from various sources, including U.S.G.S. topographic maps, soil survey maps, and geologic maps, in order to characterize the physical features of the Site and surrounding area. CDW completed a subsurface investigation at the Site which included the advancement of soil borings, the installation of groundwater monitoring wells, and soil and groundwater sampling. Soil borings and monitoring wells were completed by CDW's subcontractor, Soil Exploration Corporation. Laboratory analysis was completed by CDW's subcontractor, Spectrum Analytical, Inc. A groundwater flow survey was conducted at the Site in December 2001.

4.1 Topography and Hydrologic Features

The Site is located at an elevation of approximately 15 feet mean vertical datum. The Site topography is fairly level but slopes naturally from the north to the south towards the Neponset River. The closest surface water body is the Neponset River which is located approximately 150 feet to the south of the Site. Surface water runoff flows overland and into municipal storm drains on Granite Avenue and Hilltop Street.

According to the U.S. Department of Agriculture Soil Survey Report of the Norfolk and Suffolk Counties, soils in the Site area are classified as very deep, nearly level, and poorly drained soils formed on highly decomposed organic material and silty alluvium on flood plains of and at outlets of the Charles and Neponset Rivers. The surficial geology generally consists of sand and gravel overlying coastal plain deposits.

A review of the 1983 Bedrock Geologic Map of Massachusetts shows that the Site lies within the Boston Basin Formation. Bedrock at the Site consists of the Roxbury Conglomerate, which consists of siltstone, argillite, and melephyre. No bedrock outcroppings were observed on the Site, but several outcroppings were observed to the north and west.

4.2 Limited Subsurface Investigation

In December 2001, CDW conducted a limited subsurface investigation which consisted of soil and groundwater sampling and analysis, and a groundwater flow survey.

CDW collected soil samples at the Site on December 10, 11 and 12, 2001. Thirty (30) soil borings were completed at the Site using hydraulic push technology. The borings were placed in a loose grid pattern across nearly the entire Site. Soil samples were collected continuously to depths of 10-12 feet, except for those borings where refusal was encountered. Soil encountered was predominantly fine to medium sand, silt, peat, and cobbles. The top four feet was primarily fill material with some coal and brick pieces. After soil sampling, the borings were backfilled using native material. Figure 2 in Appendix A shows the approximate locations of the soil borings. Soil boring logs are included in Appendix C.

CDW used a photoionization detector (PID) to field-screen 103 soil samples for the presence of volatile organic compounds (VOCs) using the headspace method. The PID is an instrument used to quantify VOCs and has a detection limit of 1 part per million (ppm). The following methodology was employed for the headspace screening:

- Collect the sample up to one-half capacity in a clean glass jar.
- Cover the top of the jar with aluminum foil. Tightly place the jar cover on top of the aluminum foil sheet.
- Vigorously shake the jar content to allow for volatilization of the organic compounds into the air space.
- Allow the jar to sit for one minute at room temperature. Carefully remove the jar cover without removing the aluminum cover. Quickly insert the PID probe into the jar by forcing it through the aluminum cover.
- Read the maximum total PID level. Express the level in ppm as benzene equivalent.

The field-screening results indicated levels of VOCs ranging from <1 ppm to 15.5 for the samples screened. The PID headspace analysis results are summarized in Table 1 in Appendix B.

Borings CDW-1, CDW-2, CDW-3, and CDW-4 were advanced using a hollow-stem auger, and completed as two-inch diameter PVC monitoring wells. The well locations were based on proximity to potential sources of contamination, and to obtain a representative groundwater profile of the entire Site. The wells were constructed with ten feet of two-inch diameter slotted screen and a solid PVC riser, and the borehole annulus was filled with sand to one foot above the screened interval. A foot of bentonite was then used to create a seal within the borehole. A protective roadway box was installed with a cement seal at grade.

Monitoring well CDW-1 was installed on the eastern portion of the Site to evaluate groundwater quality which is near the adjacent DEP listed site at 170 Granite Avenue. Monitoring wells CDW-2 and CDW-3 were installed in the central portion of the Site. Monitoring well CDW-4 was installed in the western portion of the site near a former UST. The monitoring wells were gauged for depth to groundwater and for the presence of NAPL. Bedrock was not encountered during drilling.

4.2.1 Soil Sampling and Analysis

One (1) soil sample from each of eight (8) selected borings was submitted for laboratory analyses, which included extractable petroleum hydrocarbons (EPH) including target polynuclear aromatic hydrocarbons (PAHs), volatile petroleum hydrocarbons (VPH), volatile organic compounds (VOCs) by EPA Method 8260, and total priority pollutant metals (PPM13). The samples were submitted from depths of either 0-4 or 4-8 feet. Four surficial soil samples from the unpaved area on the eastern portion of the Site were also submitted for Polychlorinated Biphenyls (PCBs) by EPA Method 8082, and semi-volatile organic compounds (SVOCs) by EPA Method 8270. The samples were preserved by refrigeration and methanol, as appropriate, and were delivered to the laboratory accompanied by an appropriate chain-of-custody record.

4.2.2 Groundwater Sampling and Analysis

On December 26, 2001, CDW collected groundwater samples from the four (4) newly-installed monitoring wells. Prior to sample collection, a minimum of three well volumes were purged from each well, and the groundwater was allowed to recharge. Groundwater samples from the wells were obtained with dedicated polyethylene bailers. The samples were submitted to the laboratory for analyses for EPH, including target PAHs, VPH, VOCs by EPA Method 8260, soluble PPM13, and total cyanide. The samples were preserved by refrigeration, hydrochloric acid and sodium hydroxide, as appropriate, and were delivered to the laboratory accompanied by an appropriate chain-of-custody record.

On January 11, 2002, CDW measured water quality parameters including temperature, pH, and conductivity within the 4 newly installed monitoring wells and 6 existing wells. The pH ranged from 6.41 in monitoring well CDW-3 to 8.01 in well EMW-2. These results can be found in Table 2 in Appendix B.

4.3 Groundwater Gauging and Flow Direction

On January 4, 2002, CDW's subcontractor, Goldsmith, Prest, and Ringwall, Inc. of Harvard, MA, surveyed the monitoring well elevations to a reference datum point.

On December 26, 2001, the monitoring wells were gauged for depth to groundwater using an oil/water interface probe. The gauging data were converted to groundwater elevations, which are summarized on Table 3 in Appendix B. The groundwater was observed at depths ranging from approximately 3.5 to 9 feet below grade, and was determined to be flowing in a east/southeasterly direction. Additional monitoring wells previously installed by others were utilized, where possible, to obtain an accurate groundwater flow direction. A groundwater contour map is included as Figure 3 in Appendix A.

5.0 Nature and Extent of Contamination

CDW evaluated the results of soil and groundwater sampling and analysis, and compared the results with applicable standards in the MCP.

The selection of an applicable soil classification of RCS-1, as defined in the MCP, 310 CMR 40.0361(1)(a), for the comparison of Reportable Concentrations (RCs), was based upon the location of the Site within 500 feet of a residential dwelling, a residentially-zoned property, and a playground. The selection of an applicable groundwater classification of RCGW-2, as defined in the Massachusetts Contingency Plan (MCP), 310 CMR 40.0362, for the purpose of identifying RCs, was based upon the location of the Site outside of any current or potential groundwater resource area.

For the purpose of identifying the applicable Method 1 risk assessment (RA) standards, as defined in the MCP 310 CMR 40.0930 for the present and foreseeable future land uses of the Site relative to soil, the soil at the Site from 0 to 15 feet in paved areas is classified as S-2, as follows:

- The soils at the Site are potentially accessible,
- The intensity of use by adults and children is considered to be low, and
- The frequency of use by adults and children is considered to be high.

However, in order to evaluate both the current and foreseeable future risk of harm without assuming restrictions to Site uses, all soil from depths of 0 to 15 feet below grade was compared to S-1 standards. The soil at a depth greater than 15 feet below grade is classified as S-3 for isolated subsurface soils.

For the purpose of identifying the applicable Method 1 RA standards, as defined in the MCP, 310 CMR 40.0930, for the present and foreseeable future land uses of the Site relative to groundwater, the groundwater categories are designated as GW-2 and GW-3, due to the following:

- The groundwater is not within a Zone II,
- The groundwater is not within an Interim Wellhead Protection Area,

- The groundwater is not within a Potentially Productive Aquifer,
- The groundwater is not within the Zone A of a Class A Surface Water Body,
- The groundwater is located within 500 feet of a public water supply system distribution pipeline,
- The groundwater is not within 500 feet of a private water supply well,
- The groundwater is less than 15 feet from the ground surface and in some areas less than 30 feet from a building, and
- The groundwater potentially discharges into surface water.

The results of the laboratory analytical testing of soil and groundwater samples were evaluated and compared with current RCs. For general evaluation of future regulatory closure requirements, the data was also compared to the Method 1 RA standards. Copies of the laboratory reports are included in Appendix F.

5.1 Soil Sample Headspace Analysis Results

The highest headspace VOC reading of 15.5 ppm was observed in soil boring CDW-3 at a depth of 2-4 feet. The 4-6.5 foot depth sample of boring B-5 exhibited a PID reading of 11.5 ppm. All of the remaining soil samples reported levels of headspace VOCs below 10 ppm. The results of the headspace analyses of soil samples collected from the Site in December 2001 are summarized in Table 1 in Appendix B.

5.2 Soil Sample Laboratory Analysis Results

EPH were detected in all of the eight soil samples analyzed, and six of the samples had detectable concentrations of PAHs. VPH were detected in six of the soil samples, and VOCs were detected in five of the samples analyzed. PPM13 were detected in all of the samples analyzed. PCBs were detected in three of the four surface soil samples analyzed. The results of the soil analysis from the subsurface investigation indicated that the concentrations of EPH in three soil samples and PAHs in four soil samples exceeded the applicable RCs. However, these PAH concentrations were attributed to the observed coal

and /or ash in soil, and are therefore exempt from reporting requirements. The concentrations of several metals including cadmium, copper, lead, and zinc exceeded applicable RCs in several soil samples. PCBs from two of the surface soil samples exceeded applicable RCs, and one of the samples also exceeded the Imminent Hazard threshold of 10 ppm. None of the sample results for VPH or VOCs exceeded the applicable RCs.

Tables 4, 5, 6 and 7 in Appendix B presents the results of the laboratory analyses of the soil samples. The complete laboratory reports and chain-of-custody records are included in Appendix F.

5.3 Groundwater Sample Analysis Results

Monitoring wells CDW-1, CDW-2, CDW-3 and CDW-4 were sampled on December 26, 2001, for EPH including target PAHs, VPH, VOCs by EPA Method 8260, soluble PPM13, and total cyanide. The results of the analysis revealed detectable concentrations of EPH, PAHs, soluble PPM13, total cyanide and one VOC. The concentrations of soluble lead and zinc in monitoring well CDW-1, and soluble zinc and total cyanide in monitoring well CDW-3 exceeded the applicable RCs and Method 1 standards. The groundwater sampling results are summarized in Table 8 in Appendix B. The complete laboratory reports and chain-of-custody records are included in Appendix F.

5.4 Building Debris Sample Analysis Results

On December 26, 2001, CDW collected 5 samples from building debris piles at the Site to characterize this material for off-site disposal. Material in these piles included concrete, brick, wood, and what appeared to be asphalt. The samples were analyzed for PCBs, total Lead, and Asbestos. PCBs were detected in 4 of the 5 samples analyzed, and lead was detected in all of the samples. The highest concentrations of PCBs were detected in the concrete samples. No asbestos was detected in any samples. Table 9 in Appendix B presents the results of building debris analysis.

5.5 Extent of Contamination

The EPH detected in Site soil is most heavily concentrated on the southeastern portion of the Site in borings B-21 and B-26. EPH was also found at other isolated areas of the Site in the central portion and southwestern portion and ranges in depth from 0-8 feet below grade. PCBs were detected in 3 of 4 surficial soil samples obtained from the unpaved eastern portion of the Site. The highest concentrations were detected in soil near the northern Site boundary. The PAHs detected in soil samples PCB-1 through PCB-4 appeared to be present throughout the eastern portion of surficial soil at the Site. The PAHs detected in soil samples appeared to be attributed to the observed coal and/or ash in soil, and are therefore exempt from any reporting requirements in accordance with 310 CMR 40.0317(9). The horizontal extent of copper, lead, and zinc detected in soil appeared to extend throughout the Site, but is primarily concentrated on the eastern portion. The vertical extent of these metals appeared to be limited to the first four feet below grade. However, the heavy metals arsenic, cadmium and silver in soil were found in the central portion of the Site at depths below 4 feet. The inconsistent concentrations of EPH, PAHs, and heavy metals may be related to fill material deposited at the Site, and may not represent a specific or isolated release of oil or hazardous materials.

The Site data showed the presence of cyanide in groundwater in the south central portion of the Site. The soluble lead in groundwater appeared throughout the Site, however the highest concentrations were found on the eastern portion. The soluble zinc in groundwater also extended throughout the Site, with the highest concentrations in the south central and eastern portions of the Site. EPH was present in groundwater throughout the Site, and PAHs were detected only on the south-central portion of the Site. Groundwater was measured between 3.5 and 9 feet below the ground surface in the on-site monitoring wells. No NAPL was observed in any of the monitoring wells during CDW's subsurface investigation.

6.0 Immediate Response Actions Evaluation

Based upon this investigation, the need for Immediate Response Actions has not been identified at the Site at this time. The Site is kept securely fenced and locked, which prevents accessibility to the Site. The Site must be kept secure from unauthorized entry or an Imminent Hazard may exist due to concentrations of PCBs in surficial soils which exceed the Imminent Hazard threshold.

7.0 Migration Pathways and Exposure Potential

CDW evaluated the potential impacts from the Site conditions identified. Known or potential impacts from the Site conditions include migration pathways, and exposures by both human and environmental receptors.

7.1 Known or Potential Migration Pathways

The Site is not located within a groundwater resource area designated as a Potentially Productive Aquifer or an Interim Wellhead Protection Area for a public water supply source. The Site building was previously serviced by municipal water and sewer. Groundwater is located between 3.5 and 9 feet below grade. The utility trenches for the water and sewer lines could act as preferential migration pathways for contaminants in groundwater, depending upon how deep they are below grade. Backfilling and disturbance of soils during future utility installation or re-development activities may alter soil structure and increase permeability rates relative to surrounding areas.

Storm water from the Site flows overland and discharges into municipal storm drains, which were observed throughout the Site. The presence of the Neponset River to the south likely represents the most preferential pathway for groundwater flow.

7.2 Known or Potential Human Exposure

The materials present at the Site and their primary exposure routes are as follows:

<u>Material</u>	<u>Physical State</u>	<u>Exposure Route</u>
EPH	Solid/Liquid	Absorption, Ingestion
VPH/VOCs	Vapor	Inhalation, Absorption, Ingestion
PAHs	Solid/liquid	Absorption, Ingestion
Metals	Solid/liquid	Absorption, Ingestion
PCBs	Solid	Absorption, Ingestion
Cyanide	Liquid	Absorption, Ingestion

EPH is generally associated with petroleum products, including fuel oil. Potential human exposure to EPH in soils occurs primarily due to direct contact, or contact with disturbed soil particulates laden with these compounds. Potential human exposure to EPH contamination found in soil may occur through direct contact with soils on-site such as if subsurface excavation is performed for utility work.

EPH and VPH compounds and metals are somewhat soluble in water. Larger molecular weight EPH compounds and metals will often be retained within the soil matrix, with the lighter EPH compounds volatilizing or dissolving into groundwater. Potential human exposure to EPH and metals contamination in soil may occur through direct contact with soils on-site such as if subsurface excavation is performed for utility work.

PCBs are generally associated with electrical equipment such as transformers and capacitors, and in hydraulic fluids. PCBs bind strongly to soil sediments but can be carried long distances when airborne. In water, only a small amount of PCBs dissolve, and the remainder are bound to sediments. Potential human exposure to PCBs can occur through breathing air that contains PCBs, or through direct contact with soils on-site.

Cyanide and cyanide salts are generally associated with electroplating and metal treatment. Potential human exposure to cyanide in groundwater may result from the use of groundwater for drinking purposes or if direct contact occurs.

7.3 Known or Potential Environmental Exposure

The Site is predominantly paved, with some vegetation and trees. No wildlife was observed at the Site, which is located within an urban commercial/residential area. Natural resources identified in the Site vicinity include protected open spaces and an ACEC. The nearest protected open space to the Site is located adjacent and south. The Neponset River is located approximately 150 feet south of the Site and is also considered an ACEC.

8.0 Summary of Findings and Opinions

CDW conducted a Phase I Initial Site Investigation of the property located at 140 Granite Avenue in Dorchester, Massachusetts. CDW's summary of findings and conclusions relative to this investigation are presented next.

The Site was occupied by a metal recycling/scrap yard and refining operation for the past 80 years. According to the Sanborn maps, a gasoline UST was located on the western portion of the Site in 1964. A 2,000 gallon diesel UST and a 1,000 gallon gasoline UST were removed from the Site on August 2, 1993. A release of gasoline occurred at the Site on August 2, 1993 during the removal of the gasoline UST. There were no available records of soil sampling during any of the UST removal activities.

A subsurface investigation was completed at the Site by CDW in December 2001 and January 2002. Soil sample analysis revealed concentrations of EPH, several PAHs, and five metals in soil exceeding the applicable RCs. The PAHs detected in soil samples were determined to be exempt from the MCP reporting requirements due to observed coal and/or ash in soil. VPH and one VOC were also detected in soil below the applicable RCs and Method 1 standards. No specific sources or source areas were identified that may have resulted in concentrations of these contaminants in soils on-site.

PCBs were detected in surficial soil at concentrations exceeding applicable RCs and the Imminent Hazard threshold of 10 ppm on the eastern portion of the Site. However, since the Site is adequately secured with fencing and signs, the PCB concentrations do not represent an Imminent Hazard at this time. PCBs, as well as lead, were also detected in building debris analyzed.

Analysis of groundwater samples revealed concentrations of cyanide and soluble zinc in monitoring well CDW-3, and soluble lead and zinc in monitoring well CDW-1 above the applicable RCs and Method 1 standards. Monitoring well CDW-3 is located on the south-central portion of the Site and monitoring well CDW-1 is located on the eastern portion of the Site. Groundwater was encountered onsite during drilling at between 3.5 and 9 feet below grade. Concentrations of cyanide appear to be limited to the southern portion of the Site. Concentrations of several metals were found to be

present throughout the Site. No specific sources or source areas were identified that may have resulted in concentrations of these contaminants in groundwater. Based on gauging data, the groundwater flow direction at the Site is to the east/southeast towards the Neponset River.

In accordance with 310 CMR 40.0483(1)(g) and 40.0412, CDW evaluated the need for Immediate Response Actions during the course of this Phase I Site Investigation. CDW determined, based upon Site research and results of the limited subsurface investigation, that immediate or accelerated response actions were not required to prevent, eliminate, or minimize damage to public health, public welfare, or the environment. Although concentrations of PCBs in surface soil exceeded the Imminent Hazard threshold, the Site is adequately secured with fencing and signs to prevent unauthorized access.

In accordance with 310 CMR 40.0486, upon completion of this report, CDW is of the professional opinion that further response actions are necessary at the disposal Site before the requirements of a Response Action Outcome can be met.

9.0 Limitations

The conclusion is limited to the information available at the time of the investigation and the scope of services as defined. A limited subsurface investigation was performed on this Site; therefore, limited conclusions can be made relative to the subsurface conditions. No other conclusions, interpretations, or recommendations are contained or implied in this report other than those expressed. Also, CDW makes no warranty, expressed or implied, on the accuracy of the work and information completed by others and upon which CDW has relied to prepare this report. No other use of this report is warranted without the written consent of CDW Consultants, Inc.

10.0 References

1. City of Boston, Inspectional Services Department, November 1, 2001.
2. City of Boston, Public Health Commission, Office of Environmental Health, November 1, 2001.
3. City of Boston, Fire Department, Fire Prevention Bureau, File Review, November 7, 2001.
4. City of Boston, Tax Assessor's Office, File Research, November 1, 2001.
5. City of Boston, Environmental Office, Flood Map Research, November 1, 2001.
6. Massachusetts State House Library, Sanborn Fire Insurance Maps, November 1, 2001.
7. Massachusetts Highway Department, Photogrammetry Unit, Aerial Photographs, November 6, 2001.
8. Massachusetts Department of Environmental Protection, Database Review, Release Files, Geographical Information Systems (GIS) Maps, November 14, 2001.
9. Massachusetts Institute for Social and Economic Research, University of Massachusetts, Amherst, website, July 6, 2000.
10. Massachusetts Natural Heritage and Endangered Species Program, Natural Heritage Atlas, 2000-2001.
11. Memorandum from Roy F. Weston, Inc. - Site Activities Conducted on 2 November 2000.
12. U.S. Department of Agriculture, Soil Survey of Norfolk and Suffolk Counties, MA.

APPENDICES

CDW CONSULTANTS, INC.

APPENDIX A

FIGURES

CDW CONSULTANTS, INC.



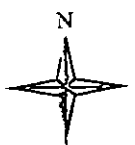
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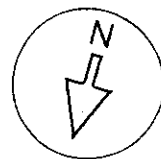
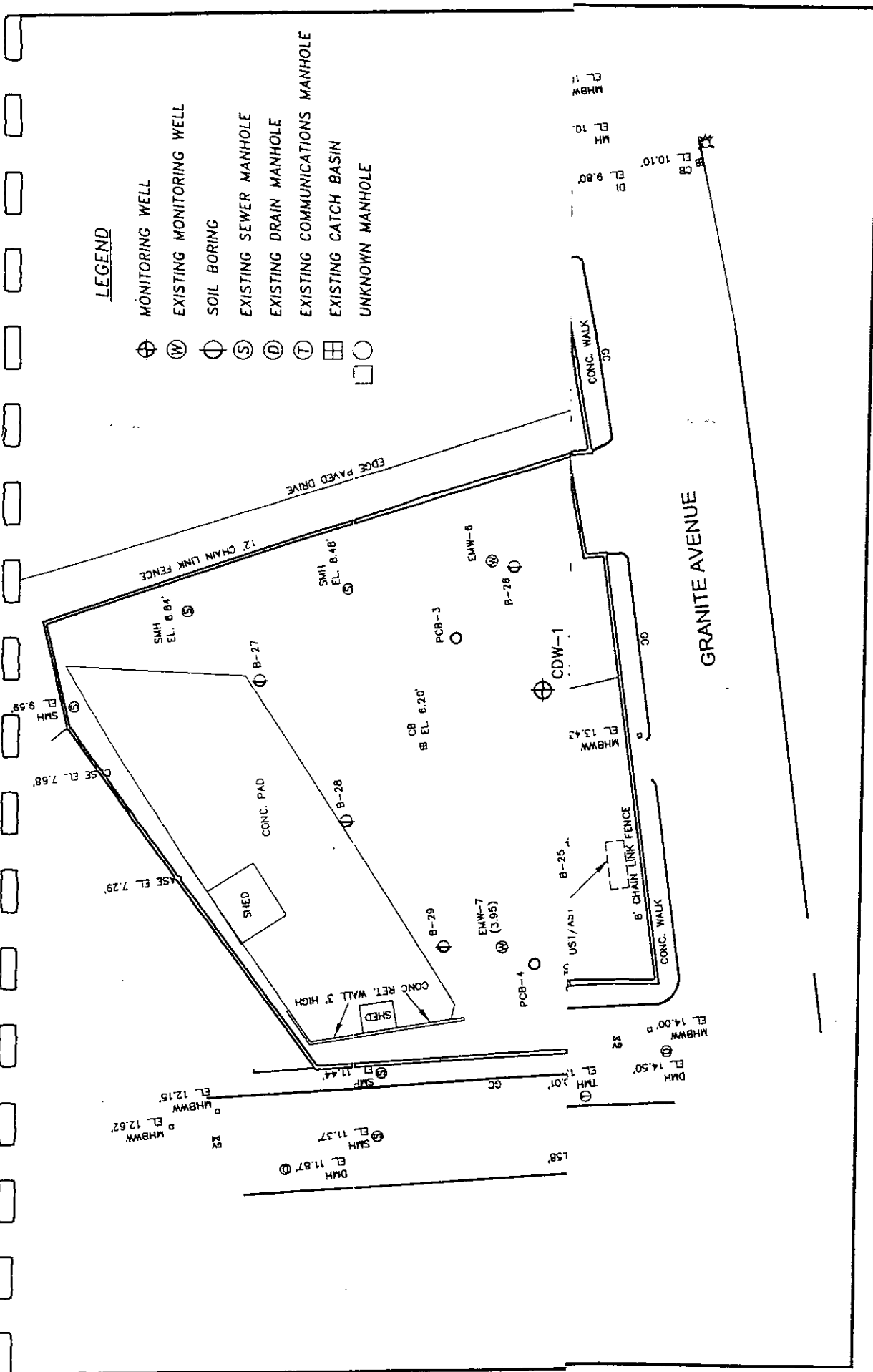
SITE LOCATION MAP
140 GRANITE AVENUE
DORCHESTER, MA

FIGURE 1

Source: USGS Boston South MA Quadrangle (1987)

Project No.: 900.00
Scale: 1:25,000





CDW CONSULTANTS, INC.

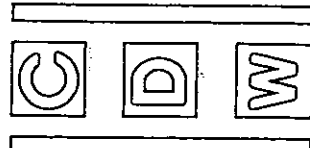
SITE PLAN WITH SAMPLING LOCATIONS

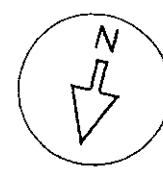
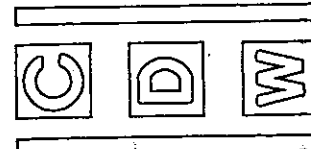
140 GRANITE AVENUE
DORCHESTER, MA

FIGURE 2

SOURCE: CITY OF BOSTON, ASSESSORS
GROUND SURVEY, BY GPR, INC., JANUARY, 2002

Project No. 900.00
Scale: 1:50





CDW CONSULTANTS, INC.

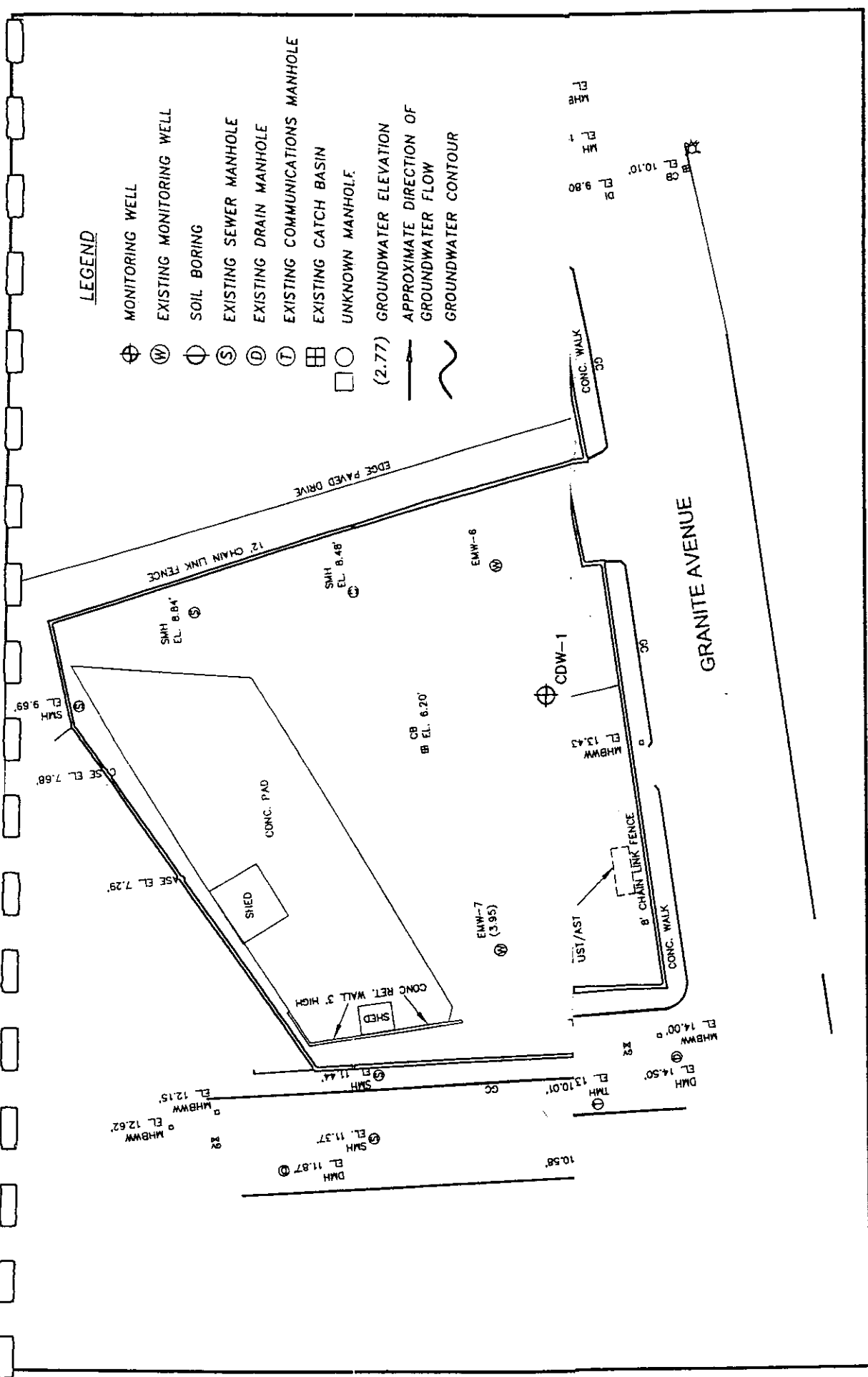
GROUNDWATER CONTOUR MAP

140 GRANITE AVENUE
DORCHESTER, MA

FIGURE 3

CITY OF BOSTON, ASSESSORS
GROUND SURVEY BY GPR INC. JANUARY 2002

Project No. 900.00
Scale: 1:50





CDW CONSULTANTS, INC.

1951 AERIAL PHOTOGRAPH

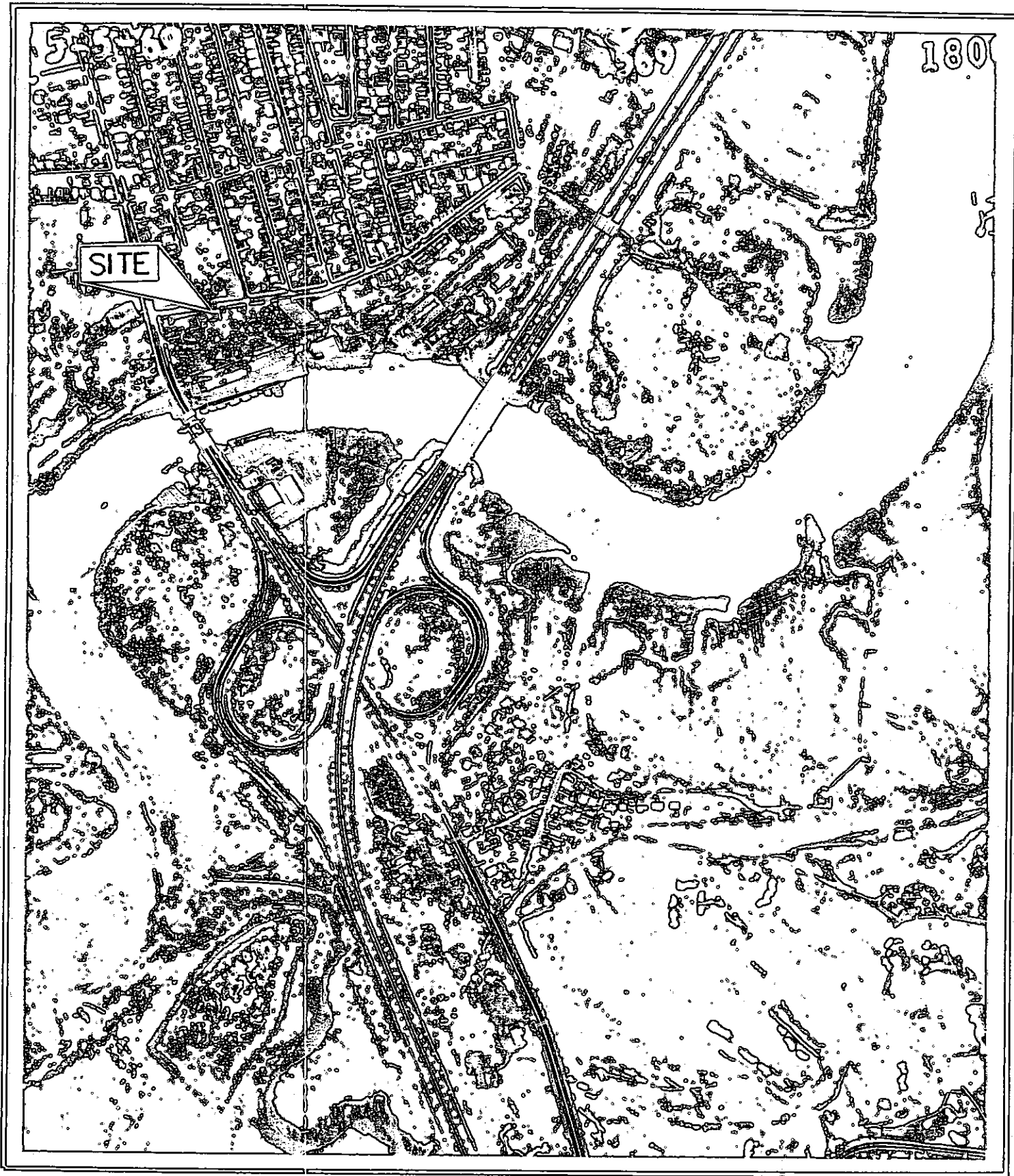
140 GRANITE AVENUE
DORCHESTER, MA

FIGURE 4

SOURCE: Massachusetts Highway Department

Project No. 900.00
Scale: 1:7,200





CDW CONSULTANTS, INC.

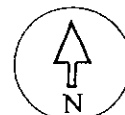
1969 AERIAL PHOTOGRAPH

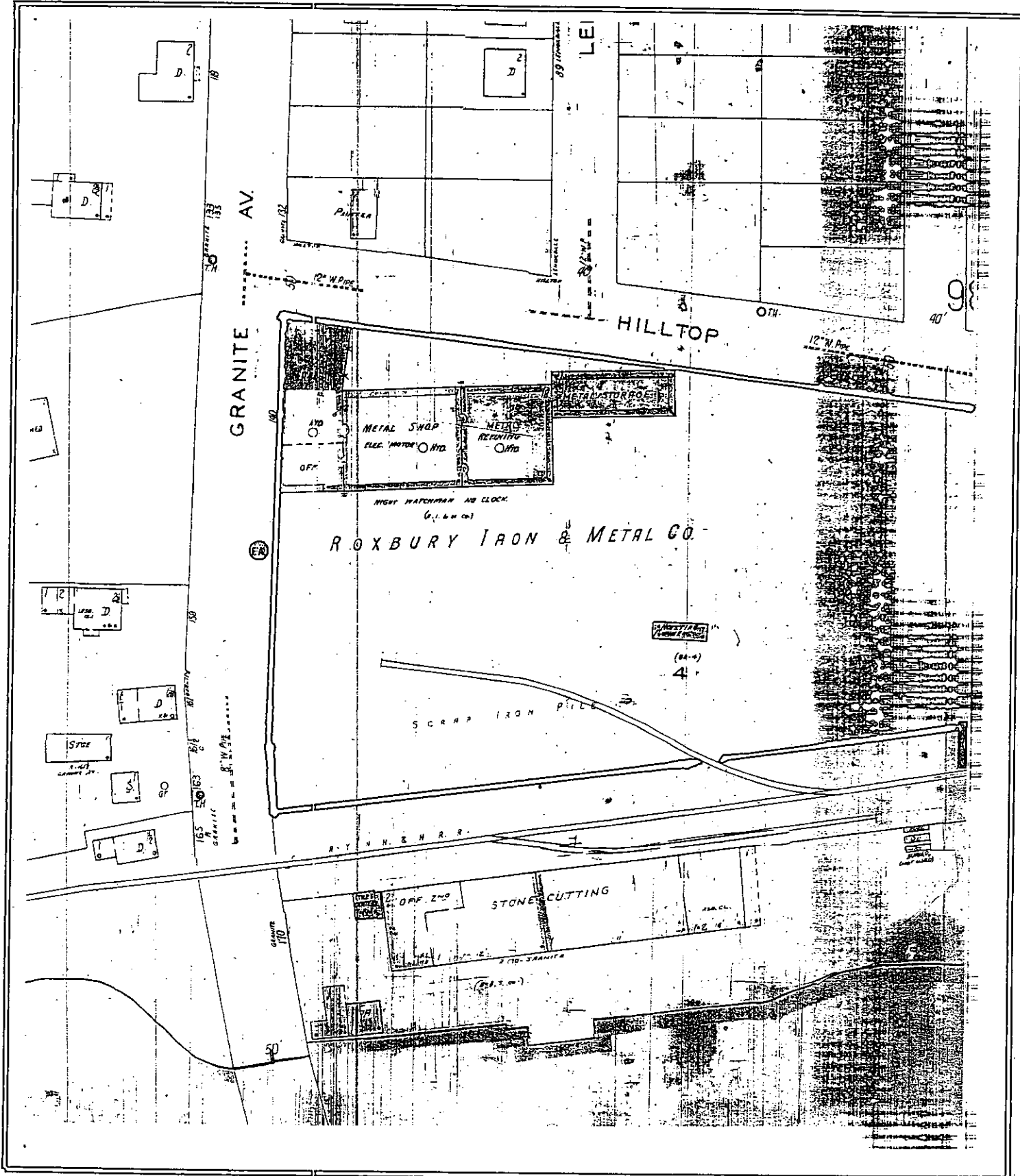
140 GRANITE AVENUE
DORCHESTER, MA

FIGURE 5

SOURCE: Massachusetts Highway Department

Project No. 900.00
Scale: 1:7,200





CDW CONSULTANTS, INC.

1950 SANBORN MAP

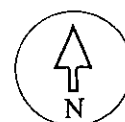
140 GRANITE AVENUE

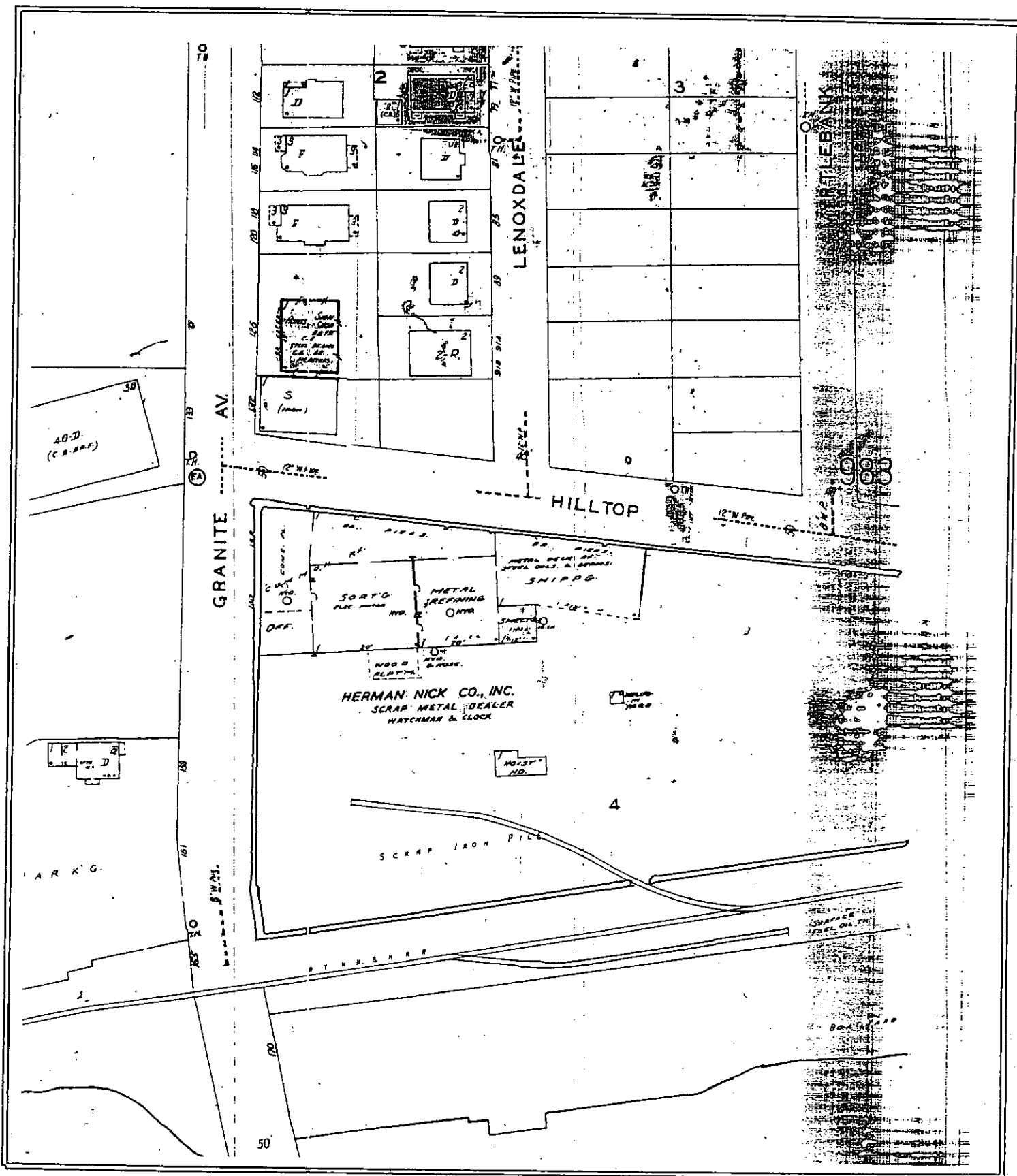
DORCHESTER, MA

FIGURE 6

SOURCE: Massachusetts State House Library Sanborn Maps

Project No. 900.00
Scale: unknown





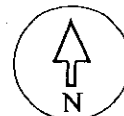
CDW CONSULTANTS, INC.

1990 SANBORN MAP
140 GRANITE AVENUE
DORCHESTER, MA

FIGURE 7

SOURCE: Massachusetts State House Library Sanborn Maps

Project No. 900.00
Scale: unknown



APPENDIX B

TABLES

TABLE 1
SOIL HEADSPACE RESULTS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
December 10, 11 and 12, 2001

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
CDW-1/S-1	0-2	<1
CDW-1/S-2	2-4	<1
CDW-1/S-3	4-6	<1
CDW-1/S-4	6-8	<1
CDW-1/S-5	8-10	1.1
CDW-2/S-1	0-2	<1
CDW-2/S-2	2-4	<1
CDW-2/S-3	4-6	<1
CDW-2/S-4	6-8	<1
CDW-2/S-5	8-10	<1
CDW-3/S-1	0-2	<1
CDW-3/S-2*	2-4	15.5
CDW-3/S-3	4-6	<1
CDW-3/S-4	6-8	<1
CDW-3/S-5	8-10	<1
B-4/S-1 (CDW-4)	0-4	<1
B-4/S-2 (CDW-4)	4-8	<1
B-4/S-3 (CDW-4)	8-12	<1
B-1/S-1	0-4	<1
B-1/S-2	4-8	<1
B-1/S-3	8-12	<1
B-2/S-1	0-4	<1
B-2/S-2	4-8	<1
B-2/S-3	8-12	<1
B-3/S-1*	0-4	<1
B-3/S-2	4-8	<1
B-3/S-3	4-8	2.2
B-4/S-1	4-8	<1
B-4/S-2	4-8	<1
B-4/S-3	4-8	<1

TABLE 1 (continued)
SOIL HEADSPACE RESULTS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
December 10, 11 and 12, 2001

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
B-5/S-1	0-4	<1
B-5/S-2*	4-6.5	11.5
B-6/S-1	0-4	<1
B-6/S-2	4-8	<1
B-7/S-1	0-4	<1
B-7/S-2	4-8	<1
B-7/S-3	8-12	<1
B-8/S-1	0-4	<1
B-8/S-2*	4-8	1.5
B-8/S-3	8-12	<1
B-9/S-1	0-4	<1
B-9/S-2	4-8	<1
B-9/S-3	8-12	<1
B-10/S-1*	0-4	<1
B-10/S-2	4-8	<1
B-10/S-3	8-12	<1
B-11/S-1	0-4	<1
B-11/S-2	4-8	<1
B-11/S-3	8-12	<1
B-12/S-1	0-4	1.1
B-12/S-2	4-8	<1
B-12/S-3	8-12	<1
B-13/S-1	0-4	<1
B-13/S-2	4-8	<1
B-13/S-3	8-12	<1
B-14/S-1	0-4	<1
B-14/S-2	4-8	<1
B-14/S-3	8-12	<1
B-15/S-1	0-4	<1
B-15/S-2	4-8	<1
B-15/S-3	8-12	<1

TABLE 1 (continued)
SOIL HEADSPACE RESULTS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
December 10, 11 and 12, 2001

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
B-16/S-1	0-4	<1
B-16/S-2	4-7	<1
B-17/S-1	0-4	<1
B-17/S-2	4-5	1.7
B-18/S-1	0-4	<1
B-18/S-2	4-6	<1
B-19/S-1*	0-4	<1
B-19/S-2	4-8	<1
B-19/S-3	8-11	<1
B-20/S-1	0-4	2.6
B-20/S-2	4-6	3.3
B-21/S-1*	0-4	8.3
B-21/S-2	4-8	5
B-21/S-3	8-12	3.5
B-22/S-1	0-4	<1
B-22/S-2	4-8	<1
B-23/S-1	0-4	<1
B-23/S-2	4-8	1.9
B-23/S-3	8-12	<1
B-24/S-1	0-4	<1
B-24/S-2	4-8	<1
B-24/S-3	8-12	<1
B-25/S-1	0-4	<1
B-25/S-2	4-8	<1
B-25/S-3	8-8.5	<1
B-26/S-1	0-4	<1
B-26/S-2*	4-8	<1
B-26/S-3	8-12	1.3
B-27/S-1	0-4	<1
B-27/S-2	4-8	<1
B-27/S-3	8-12	<1

TABLE 1 (continued)
SOIL HEADSPACE RESULTS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
December 10, 11 and 12, 2001

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
B-28/S-1	0-4	<1
B-28/S-2	4-8	<1
B-28/S-3	8-12	<1
B-29/S-1	0-3	<1
B-30/S-1	0-2	<1
B-30/S-2	2-4	1.3
B-30/S-3	4-6	<1
B-30/S-4	6-8	<1
B-30/S-5	8-10	<1
B-31/S-1	0-2	<1
B-31/S-2	2-4	1.1
B-31/S-3	4-6	<1
B-31/S-4	6-8	<1
B-31/S-5	8-10	<1

Notes: * = Indicates sample submitted for laboratory analysis
PPM = Parts Per Million

TABLE 3
GROUNDWATER ELEVATION DATA
140 GRANITE AVENUE, DORCHESTER
December 26, 2001

<u>Well Number</u>	<u>Well Elevation (ft)</u>	<u>Depth to Water (ft)</u>	<u>Groundwater Elevation (ft)</u>
CDW-1	6.63	4.14	2.49
CDW-2	8.72	5.91	2.81
CDW-3	7.98	5.30	2.68
CDW-4	9.95	6.09	3.86
EMW-1	NM	8.91	NM
EMW-2	NM	5.14	NM
EMW-4	NM	5.54	NM
EMW-5	8.44	5.67	2.77
EMW-7	7.42	3.47	3.95

Note: Well elevations and groundwater depths were measured from the top of the PVC riser.
 NM = Not Measured

TABLE 2
GROUNDWATER QUALITY DATA
140 GRANITE AVENUE, DORCHESTER
January 11, 2002

<u>Well Number</u>	<u>Temperature (°C)</u>	<u>pH</u>	<u>Conductivity (μS)</u>
CDW-1	9.3	7.30	1806
CDW-2	12.5	7.04	1674
CDW-3	16.4	6.41	608
CDW-4	14.1	6.84	1140
EMW-1	NA	NA	NA
EMW-2	15.3	8.02	1391
EMW-3	12.9	6.57	1510
EMW-4	13.9	6.84	3204
EMW-5	11.4	7.04	100.3
EMW-6	10.5	7.35	1150
EMW-7	12.4	6.53	3968
EMW-8	NA	NA	NA

Note: NA = Not measured due to no protective roadbox.

TABLE 4
LABORATORY ANALYSIS OF SOIL SAMPLES - VPH & VOCS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
DECEMBER 10, 11 and 12, 2001

Compound	B-3/ S-1	B-5/ S-2	B-8/ S-2	B-10/ S-1	B-19/ S-1 (DUP)*	B-21/ S-1	B-26/ S-2	CDW-3/ S-2	RCS-1	Method 1 Standard
	0-4'	4-6.5'	4-8'	0-4'	0-4'	0-4'	4-8'	2-4'		
C5-C8 Aliphatics	ND	29.2	ND	ND	ND	ND	ND	9.7	100	100
C9-C12 Aliphatics	ND	11.7	ND	1.5	0.55	7.7	2.2	2.2	1,000	1,000
C9-C10 Aromatics	ND	ND	ND	1.6	ND	0.58	ND	ND	100	100
n-Butylbenzene	ND	ND	ND	0.14	ND	ND	ND	ND	NA	NA
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.24	ND	ND	2	100
Ethylbenzene	ND	ND	ND	0.12	ND	ND	ND	ND	80	500
Naphthalene	ND	0.29	ND	0.18	0.24	0.089	ND	ND	4	100
Tetrachloroethene	ND	ND	ND	ND	ND	0.1	ND	ND	0.5	20
1,2,4-Trimethylbenzene	ND	ND	ND	0.38	ND	0.09	ND	ND	1,000	NA
Toluene	ND	ND	0.21	0.28	ND	ND	ND	ND	90	500
m,p-Xylenes	ND	ND	ND	0.56	ND	ND	ND	ND	500	500

Notes: PPM

* = Parts per million (mg/Kg)

= Highest concentration detected in sample B-19/S-1 or the field duplicate is reported.

= Not Detected

= No standard exists

= Reportable concentration for soil category RCS-1

Method 1 Standard

= Method 1 Risk Assessment standard for S-1 classified soil and GW-2 and GW-3 classified groundwater, whichever is more restrictive

TABLE 9 LABORATORY ANALYSIS OF DEBRIS SAMPLES - PCBs, TOTAL LEAD, ASBESTOS (PPM) 140 GRANITE AVENUE, DORCHESTER, MA December 26, 2001					
Compound	DEBRIS-1	DEBRIS-2	DEBRIS-3	DEBRIS-4	DEBRIS-5
Description	concrete w/ painted coating	wood w/ some paint	brick & mortar	black asphalt	white concrete
PCB-1260	739.7	ND	0.061	0.180	9.9
Total Lead	21.6	56.9	7.77	7.54	18.6
Asbestos	None	None	None	None	None

Notes:

PPM = Parts per million (mg/Kg)
None = Not Detected

APPENDIX C

BORING LOGS AND
WELL CONSTRUCTION DIAGRAMS

CDW CONSULTANTS, INC.

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-1 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	6-11-8-5	0-2'	6"		Dry, medium dense, brown, FINE-MEDIUM SAND, some cobbles PID Headspace = 0.0 ppm.
2						
3	S-2	4-7-6-3	2-4'	4"		Wet, medium dense, brown, FINE-MEDIUM SAND, some cobbles. PID Headspace = 0.0 ppm.
4						
5	S-3	13-10-7-8	4-6'	14"		Moist, medium dense, gray/black, FINE SAND & SILT, some cobbles, over GRAY SILT. Some bands of coal. PID Headspace = 0.0 ppm.
6						
7	S-4	10-6-5-5	6-8'	12"		Wet, medium dense, gray SILT, some cobbles, over brown/black FINE SAND, some gray ash. PID Headspace = 0.0 ppm.
8						
9	S-5	5-5-7-2	8-10'	10"		Wet, medium dense, brown/black, FINE SAND & SILT over brown PEAT. PID Headspace = 1.1 ppm.
10						
11						
12						Set well point at 12'
13						
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Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Peat
Rock:	N/A
Well Depth:	12'
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-3 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	11-12-11-12	0-2'	12"		Moist, medium dense, brown/tan, FINE-MEDIUM SAND, some gravel, cobbles, coal, and wood. PID Headspace = 0.0 ppm.
2						
3	S-2	26-100-5"	2-4'	7"		Moist, very dense, brown/orange, FINE-MEDIUM SAND w/ iron deposits and coal. PID Headspace = 15.5 ppm.
4						
5	S-3	5-1-2-1	4-6'	4"		Moist, very loose, brown, FINE-MEDIUM SAND, some gravel and wood. PID Headspace = 0.0 ppm.
6						
7	S-4	2-2-2-2	6-8'	20"		Moist, very loose, wet, gray SILT over brown SILT and PEAT. PID Headspace = 0.0 ppm.
8						
9	S-5	2-1-1-2	8-10'	20"		Wet, very loose, light brown SILT & FINE SAND, some peat. PID Headspace = 0.0 ppm.
10						
11						
12						Set well point at 12'
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Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Peat
Rock:	N/A
Well Depth:	12'
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-1 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	24"		Asphalt 0-2"
2						Dry, brown, FINE-MEDIUM SAND over moist orange/black FINE SAND with a lens of silt and clay, some wood, glass, brick. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	18"		Moist, brown, FINE-MEDIUM SAND, over black PEAT and CLAY. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	24"		Wet, tan, FINE-COARSE SAND & GRAVEL, some silt. cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
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Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Peat, Clay
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-3 Sh 1 of 1

Total Depth 9' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	36"		Asphalt 0-2"
2						Dry-moist, brown/tan, FINE-COARSE SAND & GRAVEL, some brick. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	5"		Moist, brown, FINE-MEDIUM SAND & GRAVEL, some cobbles & brick. PID Headspace = 0.0 ppm.
6						
7	S-3		8-9'	5"		Wet, dark brown, FINE-COARSE SAND, GRAVEL & COBBLES over gray, FINE-COARSE SAND, SILT & COBBLES. PID Headspace = 2.2 ppm.
8						
9						
10						Refusal at 9'
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Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Cobbles, Brick
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-1 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	6-11-8-5	0-2'	6"		Dry, medium dense, brown, FINE-MEDIUM SAND, some cobbles PID Headspace = 0.0 ppm.
2						
3	S-2	4-7-6-3	2-4'	4"		Wet, medium dense, brown, FINE-MEDIUM SAND, some cobbles. PID Headspace = 0.0 ppm.
4						
5	S-3	13-10-7-8	4-6'	14"		Moist, medium dense, gray/black, FINE SAND & SILT, some cobbles, over GRAY SILT. Some bands of coal. PID Headspace = 0.0 ppm.
6						
7	S-4	10-6-5-5	6-8'	12"		Wet, medium dense, gray SILT, some cobbles, over brown/black FINE SAND, some gray ash. PID Headspace = 0.0 ppm.
8						
9	S-5	5-5-7-2	8-10'	10"		Wet, medium dense, brown/black, FINE SAND & SILT over brown PEAT. PID Headspace = 1.1 ppm.
10						
11						
12						Set well point at 12'
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26						
27						
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29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Peat
Rock:	N/A
Well Depth:	12'
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-2 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	20-40-40-30	0-2'	14"		Moist, very dense, brown, FINE-MEDIUM SAND & COBBLES over crushed BRICK. Some black coal. PID Headspace = 0.0 ppm.
2						
3	S-2	65-120-3"	2-4'	6"		Moist, very dense, dark brown & black, FINE-MEDIUM SAND, some gravel, coal and brick. PID Headspace = 0.0 ppm.
4						
5	S-3	7-7-22-22	4-6'	20"		Moist, medium dense, gray/tan, SILT, some gravel. PID Headspace = 0.0 ppm.
6						
7	S-4	14-12-9-13	6-8'	18"		Moist, medium dense, gray/tan SILT. PID Headspace = 0.0 ppm.
8						
9	S-5	12-11-12-10	8-10'	3"		Wet, medium dense, tan, FINE SAND & SILT, some gravel & cobbles. PID Headspace = 0.0 ppm.
10						
11						Set well point at 12'
12						
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Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Cobbles, Silt
Rock:	N/A
Well Depth:	12'
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-3 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	11-12-11-12	0-2'	12"		Moist, medium dense, brown/tan, FINE-MEDIUM SAND, some gravel, cobbles, coal, and wood. PID Headspace = 0.0 ppm.
2						
3	S-2	26-100-5"	2-4'	7"		Moist, very dense, brown/orange, FINE-MEDIUM SAND w/ iron deposits and coal. PID Headspace = 15.5 ppm.
4						
5	S-3	5-1-2-1	4-6'	4"		Moist, very loose, brown, FINE-MEDIUM SAND, some gravel and wood. PID Headspace = 0.0 ppm.
6						
7	S-4	2-2-2-2	6-8'	20"		Moist, very loose, wet, gray SILT over brown SILT and PEAT. PID Headspace = 0.0 ppm.
8						
9	S-5	2-1-1-2	8-10'	20"		Wet, very loose, light brown SILT & FINE SAND, some peat. PID Headspace = 0.0 ppm.
10						
11						Set well point at 12'
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Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Peat
Rock:	N/A
Well Depth:	12'
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-4 (CDW-4) Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here on Dec. 12, 2001

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	18"		Asphalt 0-3"
2						Moist, brown, FINE-MEDIUM SAND, some gravel and crushed cobbles. sand (coal). PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	16"		Dry-moist, brown/orange, SAND over wet, brown, SILTY PEAT. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	48"		Wet, brown PEAT over wet gray, FINE-MEDIUM SAND, SILT, some gravel & cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						Set well point at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-1 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	24"		Asphalt 0-2"
2						Dry, brown, FINE-MEDIUM SAND over moist orange/black FINE SAND with a lens of silt and clay, some wood, glass, brick. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	18"		Moist, brown, FINE-MEDIUM SAND, over black PEAT and CLAY. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	24"		Wet, tan, FINE-COARSE SAND & GRAVEL, some silt. cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
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18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Peat, Clay
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-2 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	16"		Asphalt 0-2"
2						Moist, brown, FINE-MEDIUM SAND over COBBLES & GRAVEL. PID Headspace = 0.0 ppm.
3						
4	S-2		4-8'	9"		Moist, brown, FINE-MEDIUM SAND, over light brown FINE-MEDIUM SAND, GRAVEL & COBBLES. PID Headspace = 0.0 ppm.
5						
6						Wet, orange silty SAND & COBBLES over wet, gray COBBLES & SILT. PID Headspace = 0.0 ppm.
7	S-3		8-10'	26"		
8						End of boring at 12'
9						
10						
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27						
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29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Cobbles, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-3 Sh 1 of 1

Total Depth 9' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	36"		Asphalt 0-2"
2						Dry-moist, brown/tan, FINE-COARSE SAND & GRAVEL, some brick. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	5"		Moist, brown, FINE-MEDIUM SAND & GRAVEL, some cobbles & brick. PID Headspace = 0.0 ppm.
6						
7	S-3		8-9'	5"		Wet, dark brown, FINE-COARSE SAND, GRAVEL & COBBLES over gray, FINE-COARSE SAND, SILT & COBBLES. PID Headspace = 2.2 ppm.
8						
9						
10						Refusal at 9'
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Cobbles, Brick
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900.00 Client MDC BORING B-4 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	18"		Asphalt 0-2"
2						Moist, brown, FINE-MEDIUM SAND, some gravel and crushed cobbles. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	16"		
6						Dry-moist, brown/orange, FINE SAND over wet, brown SILTY PEAT. PID Headspace = 0.0 ppm.
7						
8						
9	S-3		8-12'	48"		
10						Wet, brown, PEAT over wet, gray, FINE-MEDIUM SAND & SILT, some gravel and cobbles. PID Headspace = 0.0 ppm.
11						
12						
13						
14						End of Boring at 12'
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-5 Sh 1 of 1

Total Depth 6.5' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strato Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	36"		Asphalt 0-2"
2						Moist, gray/black/orange, FINE-MEDIUM SAND, lens of white/green coarse sand. coal and ash noted in sample. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-6.5'	5"		Moist, brown/gray, FINE-MEDIUM SAND, over wet, brown sand. Ash, wood, and glass noted. PID Headspace = 11.5 ppm.
6						
7						
8						Refusal at 6.5'
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Fill
Rock:	N/A
Well Depth:	N/A
Boring:	6.5'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-6 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Sail Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	36"		Asphalt 0-2"
2						Dry, brown/tan, FINE-COARSE SAND with lens of green/black sand, over moist, gray/white organic material. Coal and ash noted. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	8"		Wet, brown/orange, FINE-MEDIUM SAND & GRAVEL, some silt. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	0"		No Recovery
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-7 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	40"		Asphalt 0-2"
2						Moist, brown, FINE-MEDIUM SAND & COBBLES over BRICK & COAL. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	18"		Wet, dark brown, FINE-MEDIUM SAND, trace gravel with some gray/ green material over dark brown PEAT. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	2"		Wet, dark brown, PEAT and brown CLAY over gray, FINE-MEDIUM SAND. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Cobble, Peat, Clay
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-8 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	30"		Asphalt 0-3"
2						Dry, brown/l. brown, FINE-MEDIUM SAND, some coal, brick and wood. trace cobbles. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	20"		Wet, gray/brown, FINE-COARSE SAND over PEAT. Slight petroleum odor. PID Headspace = 1.5 ppm.
6						
7						
8						
9	S-3		8-12'	20"		Wet, dark brown PEAT. Slight petroleum odor. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-9 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	36"		Asphalt 0-2"
2						Moist, brown/d. brown, FINE-MEDIUM SAND, some small cobbles & brick over lens of black coal. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	26"		Moist, tan, FINE-COARSE SAND & GRAVEL over wet, FINE-COARSE SAND & GRAVEL. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	42"		Wet, gray, FINE-COARSE SAND over layer of orange, FINE-COARSE SAND/GRAVEL/COBBLES, over gray, FINE SAND. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Cobbles
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-10 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	48"		Asphalt 0-2"
2						Moist, gray/black stripped, FINE-MEDIUM SAND over gray/brown, FINE SAND. Fill varies. Ash noted. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	20"		Moist, light brown/tan, FINE-COARSE SAND/GRAVEL & COBBLES over wet, MEDIUM-COARSE SAND & GRAVEL. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	12"		Wet, tan, MEDIUM-COARSE SAND & GRAVEL, trace cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Cobbles
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-11 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	6"		Concrete 0-4"
2						Moist, green/gray, FINE-MEDIUM SAND, over brown/yellow, FINE SAND. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	30"		Moist, tan, SAND with orange bands, over wet, tan/gray, SILTY SAND. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-9'	10"		Wet, tan, FINE SAND, some gravel over CRUSHED COBBLES. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden: Sand, Cobbles
Rock: N/A
Well Depth: N/A
Boring: 12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900.00 Client MDC BORING B-12 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	15"		Asphalt 0-2"
2						Moist, black, FINE-MEDIUM SAND, over brown, FINE-MEDIUM SAND, some cobbles, wood, and brick. PID Headspace = 1.1 ppm.
3						
4						
5						
6	S-2		4-8'	30"	Moist, brown/orange, FINE SAND w/ lens of rust over FINE-COARSE SAND & GRAVEL, over wet FINE-MEDIUM SAND, some gravel. PID Headspace = 0.0 ppm.	
7						
8						
9	S-3		8-12'	30"		Wet, tan, FINE-COARSE SAND over tan SILT w/ bands of orange. PID Headspace = 0.0 ppm.
10						
11						
12						End of Boring at 12'
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-13 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	22"		Asphalt 0-2"
2						Moist, brown/d. brown, FINE-MEDIUM SAND, some gravel, trace coal. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	12"		Moist, tan, FINE-COARSE SAND & GRAVEL, over wet, FINE SAND & COBBLES. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	25"		Wet, tan/gray, FINE-COARSE SAND, GRAVEL & COBBLES. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Cobbles
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-14 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	32"		Asphalt 0-2"
2						Moist, l. brown, FINE-MEDIUM SAND, some gravel over d. brown and black FINE-MEDIUM SAND, trace gravel & wood. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	28"		Wet, gray, FINE-MEDIUM SAND, trace cobbles over brown, organic PEAT. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	48"		Wet, brown, PEAT over gray/tan FINE-COARSE SAND & GRAVEL. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-15 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	20"		Asphalt 0-2"
2						Moist, brown/l. brown, FINE-MEDIUM SAND, some cobbles, over dark brown & black FINE SAND, some cobbles. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	20"		Moist, brown, FINE-MEDIUM SAND & GRAVEL over tan, FINE-MEDIUM SAND & GRAVEL, some cobbles. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	15"		Wet, tan, FINE-COARSE SAND & GRAVEL, trace cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-16 Sh 1 of 1

Total Depth 7' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	20"		Asphalt 0-2"
2						Dry, tan/brown, FINE-MEDIUM SAND, GRAVEL & COBBLES over layer of CRUSHED COBBLES over moist d. brown FINE SAND, trace brick. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-7'	30"		Moist, gray, FINE SAND & SILT, some cobbles over wet SILT & COBBLES. PID Headspace = 0.0 ppm.
6						
7						
8						Refusal at 7'
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Cobbles, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-17 Sh 1 of 1

Total Depth 5' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	16"		Asphalt 0-2"
2						Moist, l. brown, FINE-MEDIUM SAND & GRAVEL, trace cobbles, coal and brick. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-5'	7"		Moist, brown, FINE-MEDIUM SAND, trace gravel and brick over gray SILT, trace gravel. PID Headspace = 1.7 ppm.
6						
7						
8						
9						Refusal at 5'
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden: Sand, Gravel
Rock: N/A
Well Depth: N/A
Boring: 5'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-18 Sh 1 of 1
 Total Depth 6' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	20"		Asphalt 0-2"
2						Dry, l. brown/tan, FINE SAND, some gravel, wood & cobbles, trace brick PID Headspace = 0.8 ppm.
3						
4	S-2		4-8'	22"		
5						Dry, l. brown, FINE SAND, some gravel over orange, FINE SAND & moist, tan SILT. PID Headspace = 0.0 ppm.
6						
7						Refusal at 6'
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	6'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-19 Sh 1 of 1

Total Depth 11' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	25"		Moist, d. brown/black, FINE-MEDIUM SAND, trace gravel over crushed BRICK. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	30"		Moist, gray, FINE SAND, some gravel over brown/orange FINE SAND & COBBLES, some brick. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-11'	23"		Wet, tan, MEDIUM-COARSE SAND & FINE GRAVEL, some brick over tan SILT. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 11'
14						
15						
16						
17						
18						
19						
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24						
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27						
28						
29						

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Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Brick, Cobbles, Gravel
Rock:	N/A
Well Depth:	N/A
Boring:	11'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900.00 Client MDC BORING B-20 Sh 1 of 1
 Total Depth 6' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	22"		Moist, d. brown/black, FINE-MEDIUM SAND, some gravel & cobbles. PID Headspace = 2.6 ppm.
2						
3						
4						
5	S-2		4-6'	15"		Wet, d. brown, FINE-MEDIUM SAND over black, FINE SAND. PID Headspace = 3.3 ppm. Refusal at 6'
6						
7						
8						
9						
10						
11						
12						
13						
14						
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24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand
Rock:	N/A
Well Depth:	N/A
Boring:	6'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-21 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Res.		
1	S-1		0-4'	30"		Moist, tan/brown, FINE-MEDIUM SAND, some gravel over BRICK, some bands of green soil, trace brown fine sand and coal. PID Headspace = 8.3 ppm.
2						
3						
4						
5	S-2		4-8'	20"		Moist, black, FINE-MEDIUM SAND & GRAVEL over wet, GRAVEL & COBBLES, and black, FINE SAND. (slight petroleum sheen.) PID Headspace = 5.0 ppm.
6						
7						
8						
9	S-3		8-12'	12"		Wet, d. brown, FINE SAND & SILT, some cobbles over PEAT. PID Headspace = 3.5 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Cobbles, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-22 Sh 1 of 1

Total Depth 8' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	36"		Moist, brown/tan, FINE SAND, some gravel over crushed cobbles, some coal and coal tar. PID Headspace = 0.2 ppm.
2						
3						
4						
5	S-2		4-8'	20"		Moist, tan, FINE SAND & SILT, some cobbles, over wet, gray, FINE SAND, SILT & COBBLES. PID Headspace = 0.0 ppm.
6						
7						
8						
9						Refusal at 8'
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Cobbles
Rock:	N/A
Well Depth:	N/A
Boring:	8'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-23 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	30"		Moist-wet, brown/tan, FINE-MEDIUM SAND, some silt and gravel, over black, FINE-MEDIUM SAND. PID Headspace = 0.2 ppm.
2						
3						
4						
5	S-2		4-8'	26"		Wet, black/gray, FINE SAND, SILT & COBBLES. PID Headspace = 1.9 ppm.
6						
7						
8						
9	S-3		8-12'	20"		Wet, black, FINE-MEDIUM SAND, over brown PEAT. Petroleum sheen. PID Headspace = 0.8 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Cobbles, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-24 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	30"		Dry, brown, FINE SAND, some gravel, over tan/brown, FINE-MEDIUM SAND, some cobbles, coal and brick. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	20"		Crushed brick over wet, gray, SILT, over PEAT with a trace of gravel. PID Headspace = 0.2 ppm.
6						
7						
8						
9	S-3		8-12'	16"		Wet, black, FINE-MEDIUM SAND, GRAVEL and brown PEAT over brown, FINE-MEDIUM SAND, trace gravel. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Peat, Silt, Gravel
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-25 Sh 1 of 1

Total Depth 8.5' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	26"		Moist, brown, FINE-MEDIUM SAND, some gravel over dry, tan SILT and FINE SAND with bands of coal. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	20"		Wet, tan, SILT over CRUSHED BRICK over tan/gray, SILT & GRAVEL. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-8.5'	10"		Wet, gray, SILT & COBBLES. PID Headspace = 0.0 ppm.
10						
11						
12						
13						Refusal at 8.5'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden: Sand, Gravel, Silt, Brick
Rock: N/A
Well Depth: N/A
Boring: 8.5'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-26 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	8"		Moist, brown, FINE-MEDIUM SAND, some cobbles. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	24"		Wet, black/gray, FINE-MEDIUM SAND & SILT, some gravel. Slight petroleum odor. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	30"		Wet, black/gray, SILT & GRAVEL. Slight petroleum sheen & odor. PID Headspace = 1.3 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-27 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	20"		Moist, brown, FINE SAND, some gravel and cobbles. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	24"		Wet, tan, FINE SAND & SILT, some gravel and cobbles, bands of coal. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	7"		Wet, brown/black, FINE SAND, trace peat and cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900.00 Client MDC BORING B-28 Sh 1 of 1

Total Depth 12' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	24"		Moist, d. brown/black, FINE-MEDIUM SAND, some gravel & cobbles over gray, FINE SAND, SILT & COBBLES. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	20"		Wet, GRAVEL, COBBLES & BRICK, trace silt over black FINE SAND & PEAT. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	18"		Wet, brown, FINE-MEDIUM SAND, some brick over brown PEAT. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of Boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Cobbles, Silt, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-29 Sh 1 of 1

Total Depth 3' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 In.	Depth Range	Rec.		
1	S-1		0-3'	20"		Moist, brown, FINE SAND, some gravel & cobbles over dry, gray SILT and GRAVEL. PID Headspace = 8.3 ppm.
2						
3						
4						
5						Refusal at 3' (4 attempts)
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	3'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-30 Sh 1 of 1
 Total Depth 10' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks _____

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	15-18-27-14	0-2'	8"		Moist, dense, brown, FINE-MEDIUM SAND, some cobbles & gravel over CRUSHED BRICK and COAL. PID Headspace = 0.0 ppm.
2						
3	S-2	30-14-8-7	2-4'	5"		CRUSHED BRICK and COAL over dry, medium densel. brown, FINE SAND & COBBLES. PID Headspace = 1.3 ppm.
4						
5	S-3	7-5-13-15	4-6'	14"		Moist, d. medium dense, brown, FINE-MEDIUM SAND, some cobbles, brick, coal, ash over gray SILT, trace gravel. PID Headspace = 0.0 ppm.
6						
7	S-4	10-5-6-28	6-8'	6"		Wet, medium dense, gray SILT, trace gravel. PID Headspace = 0.0 ppm.
8						
9	S-5	3-2-2-3	8-10'	20"		Moist, very loose, gray SILT over brown PEAT. PID Headspace = 0.0 ppm.
10						
11						End of boring at 10'
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	10'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-31 Sh 1 of 1
Total Depth 10' Location Dorchester, MA Logged by Brian Miller
Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.
Casing ID N/A Ground Elevation N/A

Remarks

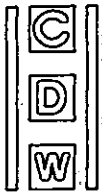
Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	28-15-9-28	0-2'	15"		Moist, medium dense, brown, FINE-MEDIUM SAND & COBBLES, trace gravel over CRUSHED BRICK, trace coal. PID Headspace = 0.0 ppm. CRUSHED BRICK over medium dense, gray, FINE SAND & SILT, some cobbles. PID Headspace = 1.1 ppm.
2						
3	S-2	17-13-9-9	2-4'	8"		
4						Dry, medium dense, tan, FINE-MEDIUM SAND, COBBLES, some coal, trace gravel. PID Headspace = 0.0 ppm.
5	S-3	30-7-4-3	4-6'	4"		
6						Moist, loose, brown, FINE-MEDIUM SAND, some cobbles. PID Headspace = 0.0 ppm.
7	S-4	7-3-7-12	6-8'	2"		
8						Wet, very dense, brown, FINE-MEDIUM SAND & SILT. PID Headspace = 0.0 ppm.
9	S-5	28-28-21-12	8-10'	2"		
10						End of boring at 10'
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

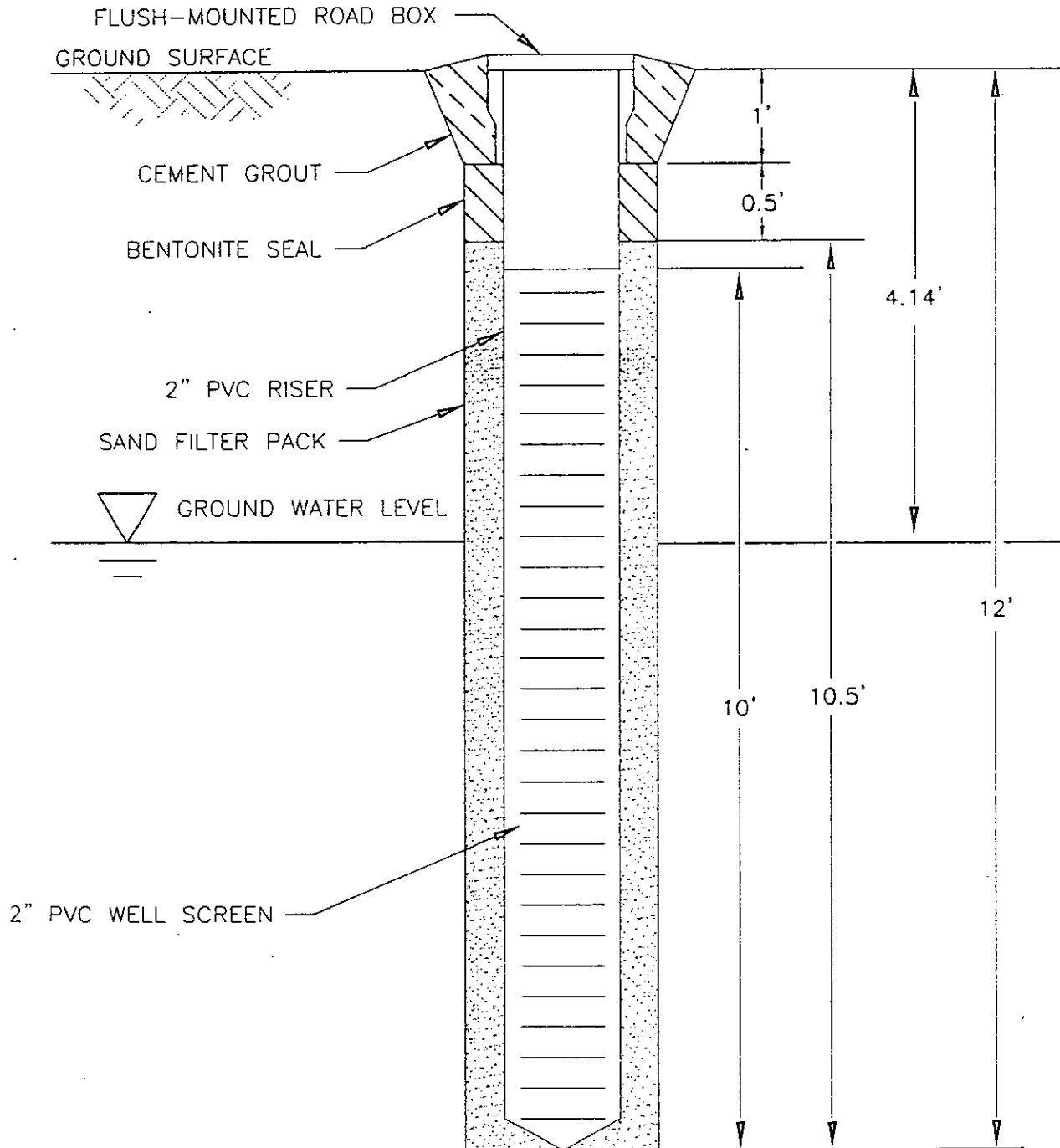
Overburden: Sand, Cobbles, Silt, Brick
Rock: N/A
Well Depth: N/A
Boring: 10'

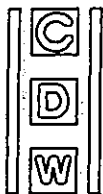


CDW CONSULTANTS, INC
Civil & Environmental Engineers
111 Speen Street, Suite 119
Framingham, MA 01701

BORING: CDW-1
Project No.: 900.00
Total Depth: 12'
Date Completed: 12/12/01
Location: 140 Granite Ave., Dorchester, MA
Remarks: Screened in Overburden

WELL CONSTRUCTION DIAGRAM

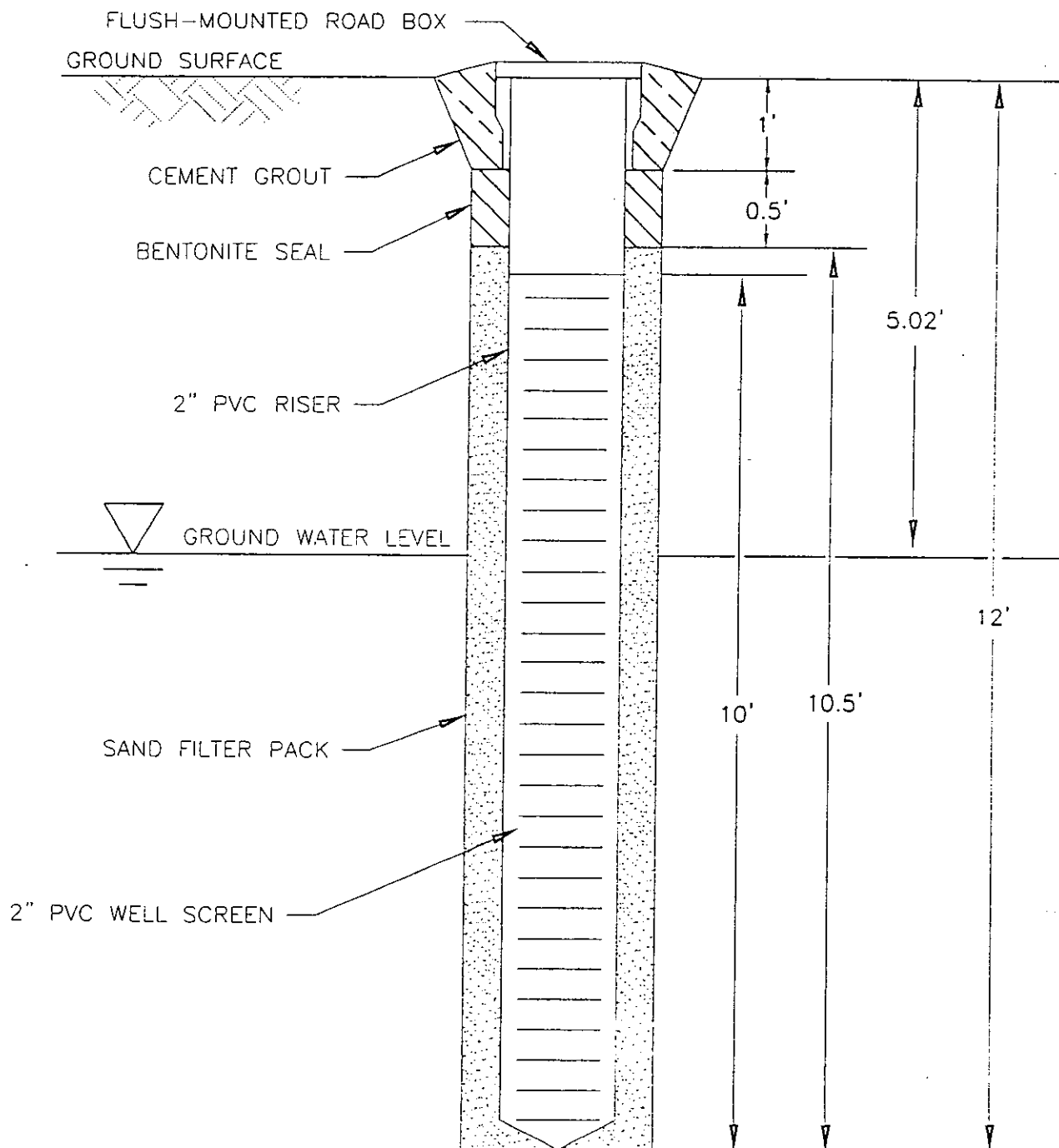


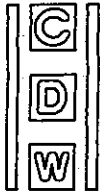


Civil & Environmental Engineers
111 Speen Street, Suite 119
Framingham, MA 01701

BORING: CDW-2
Project No.: 900.00
Total Depth: 12'
Date Completed: 12/12/01
Location: 140 Granite Ave., Dorchester, MA
Remarks: Screened in Overburden

WELL CONSTRUCTION DIAGRAM

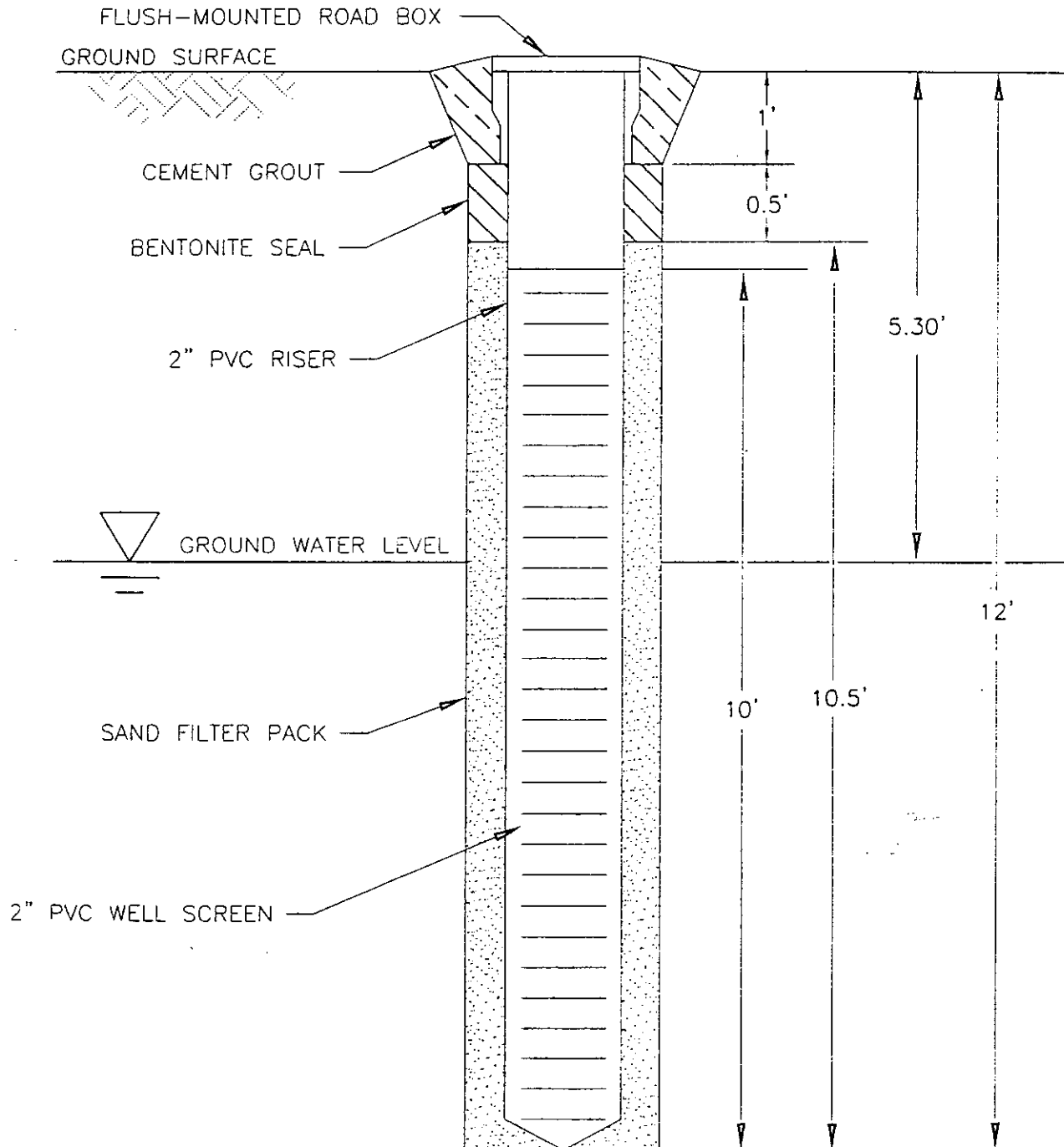




Civil & Environmental Engineers
111 Speen Street, Suite 119
Framingham, MA 01701

BORING: CDW-3
Project No.: 900.00
Total Depth: 12'
Date Completed: 12/12/01
Location: 140 Granite Ave., Dorchester, MA
Remarks: Screened in Overburden

WELL CONSTRUCTION DIAGRAM

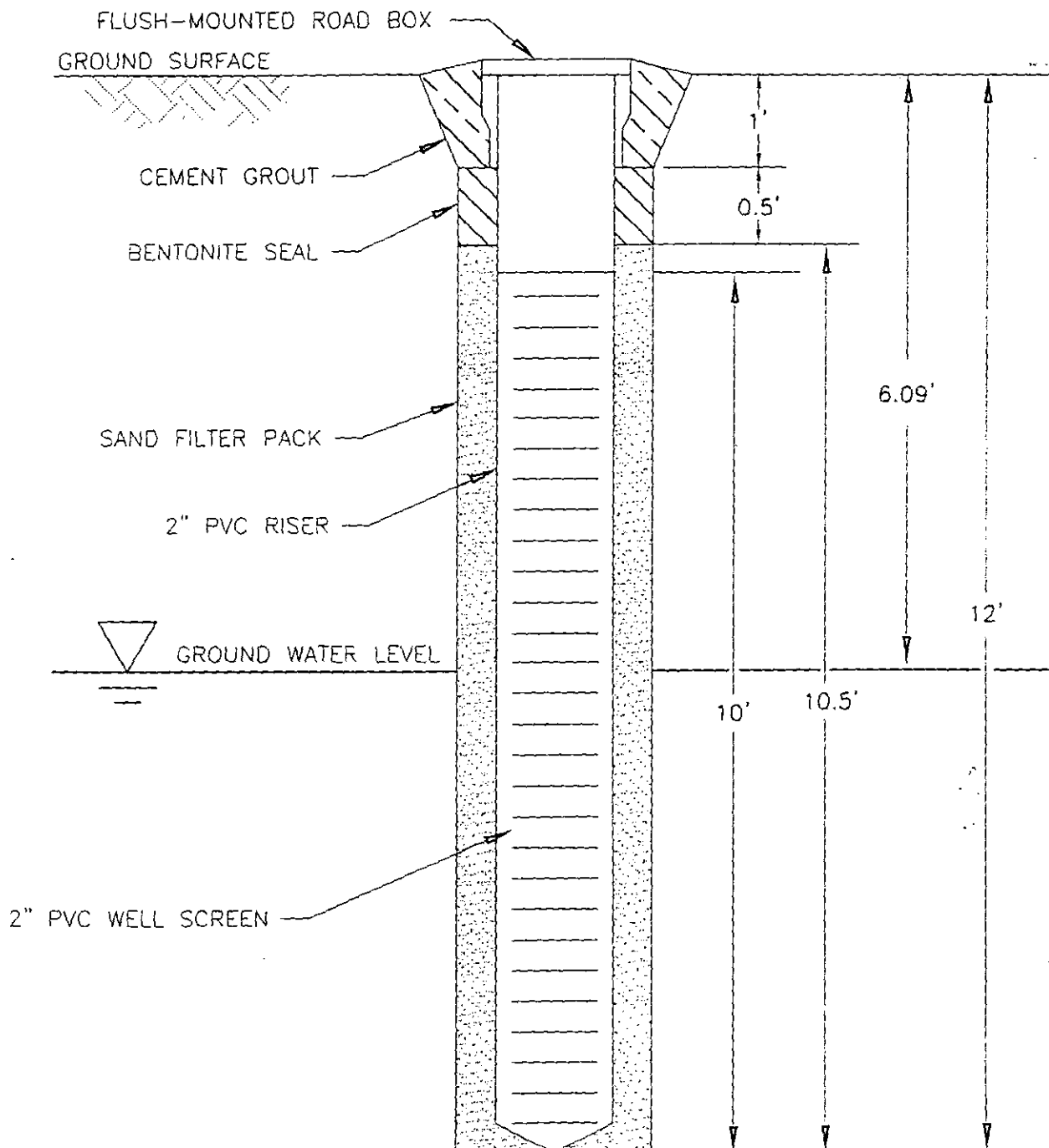


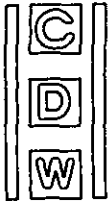


Civil & Environmental Engineers
111 Speen Street, Suite 119
Framingham, MA 01701

BORING: CDW-4
Project No.: 900.00
Total Depth: 12'
Date Completed: 12/12/01
Location: 140 Granite Ave., Dorchester, MA
Remarks: Screened in Overburden

WELL CONSTRUCTION DIAGRAM

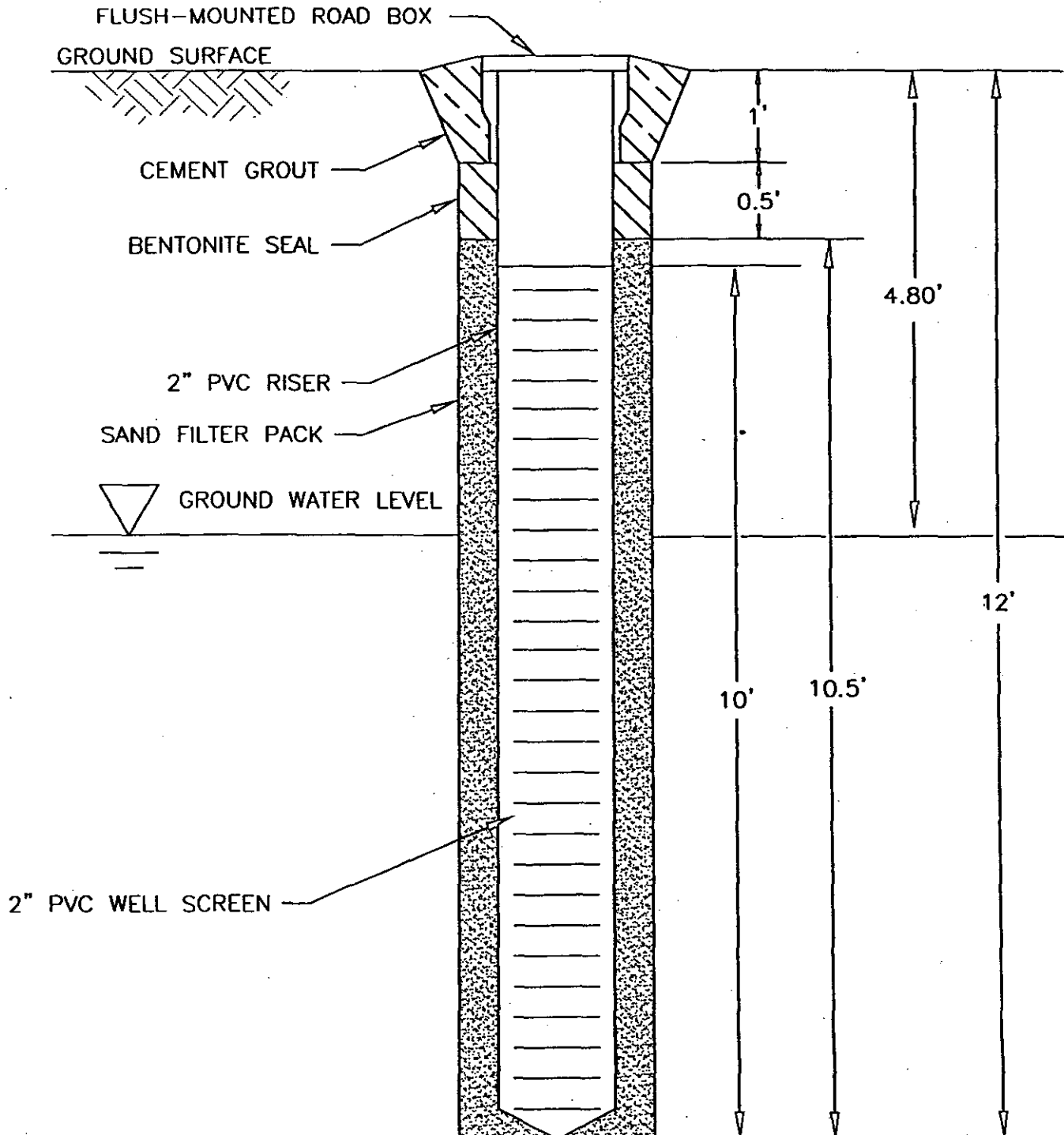




CDW CONSULTANTS, INC
Civil & Environmental Engineers
111 Speen Street, Suite 119
Framingham, MA 01701

BORING: CDW-5
Project No.: 900.00
Total Depth: 12'
Date Completed: 3/26/02
Location: 140 Granite Ave., Dorchester, MA
Remarks: Screened in Overburden

WELL CONSTRUCTION DIAGRAM



APPENDIX D

ENVIRONMENTAL DATABASE REPORT

CDW CONSULTANTS, INC.

FirstSearch Technology Corporation

Environmental FirstSearch™ Report

TARGET PROPERTY:

140 GRANITE AVE

BOSTON MA 02124

Job Number: 900

PREPARED FOR:

CDW Consultants, Inc.

111 Speen Street

Framingham, MA 01701

10-31-01



Tel: (781) 320-3720

Fax: (781) 320-3715

*Environmental FirstSearch
Site Information Report*

Request Date: 10-31-01
Requestor Name: brian/cdw/bc
Standard: ASTM

Search Type: COORD
Job Number: 900

TARGET ADDRESS: 140 GRANITE AVE
BOSTON MA 02124

Demographics

Sites: 136 Non-Geocoded: 56 Population: 7723
Radon: 0.7 - 3 PCVL

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
Longitude:	-71.053557	-71:3:13	Easting:	330665.469
Latitude:	42.278793	42:16:44	Northing:	4682559.025
			Zone:	19

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

Services:

ZIP Code	City Name	ST	Dist/Dir	Sel
02122	BOSTON	MA	0.30 NE	Y
02126	MATTAPAN	MA	0.87 SW	N
02171	QUINCY	MA	0.58 SE	N
02186	MILTON	MA	0.11 SE	Y

	Requested?	Date
Sanborns	No	10-31-01
Aerial Photographs	No	10-31-01
Topographical Maps	No	10-31-01
City Directories	No	10-31-01
Title Search	No	10-31-01
Municipal Reports	No	10-31-01
Online Topos	No	10-31-01

Environmental FirstSearch Search Summary Report

Target Site: 140 GRANITE AVE
BOSTON MA 02124

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	09-13-01	1.00	0	0	0	0	0	0	0
CERCLIS	Y	09-13-01	0.50	0	0	0	0	-	1	1
RCRA TSD	Y	08-08-01	0.50	0	0	0	0	-	0	0
RCRA COR	N	08-08-01	1.00	-	-	-	-	-	-	-
RCRA GEN	Y	08-08-01	0.25	0	0	0	-	-	0	0
RCRA NLR	N	08-08-01	0.25	-	-	-	-	-	-	-
ERNS	N	01-06-00	0.25	-	-	-	-	-	-	-
NPDES	N	09-16-01	0.25	-	-	-	-	-	-	-
FINDS	N	07-08-01	0.25	-	-	-	-	-	-	-
TRIS	N	07-16-98	0.25	-	-	-	-	-	-	-
State Sites	Y	08-01-01	1.00	0	1	1	9	31	4	46
Spills-1990	Y	05-10-01	0.50	1	4	3	29	-	51	88
Spills-1980	N	03-10-98	0.25	-	-	-	-	-	-	-
SWL	N	06-01-01	0.50	-	-	-	-	-	-	-
Permits	N	NA	0.25	-	-	-	-	-	-	-
Other	N	NA	0.25	-	-	-	-	-	-	-
REG UST/AST	Y	10-18-01	0.25	0	1	0	-	-	0	1
Leaking UST	N	NA	0.50	-	-	-	-	-	-	-
State Wells	N	03-01-01	0.50	-	-	-	-	-	-	-
Aquifers	N	01-20-99	0.50	-	-	-	-	-	-	-
ACEC	N	01-20-99	0.50	-	-	-	-	-	-	-
Wetlands	N	11-20-00	0.50	-	-	-	-	-	-	-
Floodplains	N	05-13-98	0.50	-	-	-	-	-	-	-
Receptors	Y	01-01-95	0.50	0	0	0	0	-	0	0
Nuclear Permits	N	04-30-99	0.50	-	-	-	-	-	-	-
Historic/Landmark	N	03-08-01	0.50	-	-	-	-	-	-	-
Federal Land Use	N	06-17-98	0.50	-	-	-	-	-	-	-
Federal Wells	N	NA	0.50	-	-	-	-	-	-	-
Releases(Air/Water)	N	01-06-00	0.25	-	-	-	-	-	-	-
- TOTALS -				1	6	4	38	31	56	136

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to FirstSearch Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in FirstSearch Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although FirstSearch Technology Corp. uses its best efforts to research the actual location of each site, FirstSearch Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of FirstSearch Technology Corp.'s services proceeding are signifying an understanding of FirstSearch Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and/or inaccurate site locations.

Environmental FirstSearch Sites Summary Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

TOTAL: 136 **GEOCODED:** 80 **NON GEOCODED:** 56 **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
1	STATE	ATLANTIC FUELS MARKETING 3-0001246/TIER 2	500 NEPONSET AVE DOR DORCHESTER MA 02122	0.81 NE	7
2	STATE	BAKER CHOCOLATE MILLS (FMR) 3-0001417/RAO	ADAMS ST & CENTRAL AVE DOR DORCHESTER MA 02124	0.95 SW	8
3	STATE	COMMERCIAL PROPERTY 3-0004478/TIER 2	638-640 GALLIVAN BLVD DOR DORCHESTER MA 02124	0.38 NE	9
4	STATE	D AMICO INC 3-0000615/ND5	41 HALLET ST DOR DORCHESTER MA 02124	0.49 NE	10
5	STATE	DENSMORE ST AND HANCOCK ST INTERSEC 3-0013889/TIER 2	22-26 DENSMORE ST QUINCY MA 02171	0.86 NE	11
6	STATE	DENSMORE ST AND HANCOCK ST INTERSEC 3-0013892/RAO	22-26 DENSMORE & 45 HANCOCK ST QUINCY MA 02171	0.86 NE	11
7	STATE	DENSMORE ST AND HANCOCK ST INTERSEC 3-0013890/TIER 2	22-26 DENSMORE ST QUINCY MA 02171	0.86 NE	11
8	STATE	DUTCH TREAT DONUT 3-0001374/DEF TIER 1B	1931 DORCHESTER AVE DOR DORCHESTER MA 02124	0.72 NW	12
9	STATE	ENGINE 18 3-0018603/TIER 2	1884 DORCHESTER AVE DORCHESTER MA 02124	0.75 NW	13
10	STATE	ENGINE 18 3-0018604/TIER 2	1884 DORCHESTER AVE BOSTON-DORCHES MA 02124	0.75 NW	13
11	STATE	ENGINE 20 3-0018607/TIER 2	301 NEPONSET AVE DORCHESTER MA 02122	0.76 NE	14
12	STATE	EXXON GASOLINE STATION 3-0003327/TIER 2	719 GALLIVAN BLVD DOR DORCHESTER MA 02122	0.51 NE	3
13	STATE	FABREEKA MILLS COMPLEX 3-0001826/DEF TIER 1B	7 MEDWAY & 1190 ADAMS STS DOR DORCHESTER MA 02124	0.79 SW	15
14	STATE	FACILITY #72 3-0013564/TIER 2	73 GRANITE AVE MILTON MA 02186	0.49 SE	2
15	STATE	GASOLINE STATION 3-0002669/RAO	815 GALLIVAN BLVD DOR DORCHESTER MA 02124	0.71 NE	16
16	STATE	H P HOOD INC 3-0002442/DEF TIER 1B	44 WHARF ST MILTON MA 02186	0.93 SW	17
17	STATE	LI L PEACH CONVENIENCE STORE 3-0003985/RAO	1153 WASHINGTON ST DOR DORCHESTER MA 02124	0.91 SW	18
18	STATE	MDC FACILITY 3-0010348/TIER 2	475 NEPONSET AVE BOSTON-DORCHES MA 02122	0.75 NE	19
19	STATE	MEDWAY ST 3-0011850/DEF TIER 1B	1190 ADAMS ST DORCHESTER MA 02124	0.81 SW	20
20	STATE	MOBIL STA GALLIVAN BLVD 3-0018573/TIER 2	10 GRANITE AVE DORCHESTER MA 02124	0.26 NW	4

Environmental FirstSearch Sites Summary Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

TOTAL: 136 **GEOCODED:** 80 **NON GEOCODED:** 56 **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
21	STATE	NEMCH 1-C 3-0003485/NFA	810-864 WASHINGTON ST DORCHESTER MA 02124	0.93 NW	21
22	STATE	NEPONSET DRIVE-IN THEATRE 3-0002228/TIER 1C	OFF GALLIVAN BLVD DOR DORCHESTER MA 02122	0.81 NE	22
23	STATE	NO LOCATION AID 3-0020152/PRECLASSIFIED	21 MERCIER AVE DORCHESTER MA 02124	0.68 NW	23
24	STATE	NO LOCATION AID 3-0014536/TIER 2	365 NEPONSET AVE DORCHESTER MA 02122	0.71 NE	24
25	STATE	NO LOCATION AID 3-0012984/TIER 2	170 GRANITE AVE DORCHESTER MA 02124	0.08 SE	25
26	STATE	NO LOCATION AID 3-0020401/PRECLASSIFIED	24 PIERCE AVE DORCHESTER MA 02122	0.60 NE	26
27	STATE	NO LOCATION AID 3-0020479/PRECLASSIFIED	93 BRENT ST BOSTON MA 02124	1.00 NW	27
28	STATE	OFFICE BUILDING 3-0004473/RAO	100 HALLET ST DOR DORCHESTER MA 02124	0.37 NE	28
29	STATE	PEABODY CLEANERS 3-0014289/DEF TIER 1B	1767 DORCHESTER AVE DORCHESTER MA 02124	0.92 NW	29
30	STATE	PROPERTY 3-0004297/RAO	288 MINOT ST. - DOR DORCHESTER MA 02124	0.42 NW	30
31	STATE	RICCARDI CO 3-0002507/RAO	2 GRANITE AVE MILTON MA 02186	0.13 SE	31
32	STATE	SEMONT ST 3-0020459/PRECLASSIFIED	1742 DORCHESTER AVE DORCHESTER MA 02124	0.94 NW	32
33	STATE	SENTRY SOUTH LINCOLN MERCURY 3-0015629/TIER 2	40 HALLET ST DORCHESTER MA 02124	0.49 NE	5
34	STATE	SHAFFER PROPERTY 3-0014073/TIER 1C	75-105 TAYLOR ST & 7 WATER ST DORCHESTER MA 02122	0.97 NE	33
35	STATE	SHELL OIL GASOLINE STATION 3-0011379/RAO	969 MORRISEY BLVD DORCHESTER MA 02122	0.90 NE	34
36	STATE	SHELL SERVICE STA 3-0015138/TIER 2	969 MORRISSEY BLVD DORCHESTER MA 02124	0.90 NE	35
37	STATE	SHELL STATION 3-0003328/TIER 2	761 ADAMS ST DOR DORCHESTER MA 02122	0.35 NW	1
38	STATE	STOP & SHOP 3-0003674/RAO	757 GALLIVAN BLVD. DOR DORCHESTER MA 02122	0.60 NE	36
39	STATE	STORE 24 3-0003448/RAO	1886 DORCHESTER AVE DOR DORCHESTER MA 02124	0.73 NW	37
40	STATE	SUNOCO STATION 3-0003700/TIER 2	976 WASHINGTON ST DOR DORCHESTER MA 02124	0.81 SW	38

Environmental FirstSearch Sites Summary Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

TOTAL: 136 **GEOCODED:** 80 **NON GEOCODED:** 56 **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address		Dist/Dir	Map ID
41	STATE	SUNOCO STATION 3-0001370/RAO	710 GALLIVAN BLVD DORCHESTER MA 02122	DOR	0.47 NE	6
42	STATE	TEXACO SERVICE STATION 3-0001555/TIER 2	1154 MORRISSEY BLVD DORCHESTER MA 02122	DOR	0.79 NE	39
43	SPILLS	100 FT NORTH OF MINOT ST 3-0013258/RAO	761 ADAMS ST DORCHESTER MA 02122		0.35 NW	1
44	SPILLS	ACCESS ELECTRONICS 3-0010390/RAO	526 GALLIVAN BLVD DORCHESTER MA 02124		0.28 NW	40
45	SPILLS	ACROSS FROM SARANAC 3-0019185/RAO	2 WESTMORLAND ST DORCHESTER MA 02124		0.42 NW	41
46	SPILLS	BELOW-GRND TANK OVERFILL N91-1107	288 MINOT ST BY FREDERIKA ST DORCHESTER MA 02124		0.42 NW	30
47	SPILLS	BFI N93-0386	100 HALLET ST DORCHESTER MA 02124		0.37 NE	28
48	SPILLS	BRUSH HILL TRANSPORTATION 3-0001984/RAO	170R GRANITE & 62R HILLTOP DOR DORCHESTER MA 02124		0.08 SE	25
49	SPILLS	CITGO STATION N91-0527	497 GALLIVAN BLVD DORCHESTER MA 02124		0.23 NW	42
50	SPILLS	COMMERCIAL PROPERTY 3-0004478/TIER 2	638-640 GALLIVAN BLVD BOSTON-DORCHES MA	DOR	0.40 NE	43
51	SPILLS	DELS AUTO N93-1253	280 MINOT ST DORCHESTER MA 02124		0.39 NW	44
52	SPILLS	FACILITY #72 3-0013564/TIER 2	73 GRANITE AVE MILTON MA 02186		0.49 SE	45
53	SPILLS	GALLIVAN BLVD 3-0011864/RAO	GALVIN AND ADAMS ST DORCHESTER MA 02124		0.35 NW	46
54	SPILLS	MOBIL GAS STATION N91-0835	10 GRANITE AVE DORCHESTER MA 02124		0.26 NW	4
55	SPILLS	MOBIL STA GALLIVAN BLVD 3-0018573/TIER 2	10 GRANITE AVE DORCHESTER MA 02124		0.26 NW	4
56	SPILLS	NEPONSET LINCOLN MERCURY N92-1394	HALLET ST DORCHESTER MA 02124		0.49 NE	5
57	SPILLS	NO LOCATION AID 3-0014295/RAO	39 GLIDE ST DORCHESTER MA 02122		0.50 NE	47
58	SPILLS	NO LOCATION AID 3-0018030/RTN CLOSED	719 GALLIVAN BLVD DORCHESTER MA 02122		0.49 NE	48
59	SPILLS	NO LOCATION AID 3-0012984/TIER 2	170 GRANITE AVE DORCHESTER MA 02124		0.08 SE	25
60	SPILLS	NO LOCATION AID 3-0013058/RAO	699-703 ADAMS ST DORCHESTER MA 02124		0.49 NW	49

Environmental FirstSearch *Sites Summary Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

TOTAL: 136 **GEOCODED:** 80 **NON GEOCODED:** 56 **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
61	SPILLS	OFFICE BUILDING 3-0004473/RAO	100 HALLET ST DOR BOSTON-DORCHES MA	0.40 NE	50
62	SPILLS	PROPERTY 3-0004297/RAO	288 MINOT ST. DOR BOSTON-DORCHES MA	0.41 NW	51
63	SPILLS	RESIDENTIAL N92-0028	6 HURON CIR DORCHESTER MA 02124	0.50 NW	52
64	SPILLS	RESIDENTIAL N92-1205	29 MYRTLE BANK AVE DORCHESTER MA 02124	0.20 NW	53
65	SPILLS	RICCARDI CO N91-0128	2 GRANITE AVE MILTON MA 02186	0.13 SE	31
66	SPILLS	RICCARDI CO 3-0002507/RAO	2 GRANITE AVE MILTON MA	0.13 SE	31
67	SPILLS	SADDLE TANK N92-1177	GALLIVAN BLVD & ADAMS ST DORCHESTER MA 02124	0.30 NW	54
68	SPILLS	SCHLAGERS AUTO BODY 3-0018516/DPS	62R HILLTOP ST DORCHESTER MA 02124	0.11 NE	55
69	SPILLS	SENTRY SOUTH LINCOLN MERCURY 3-0015629/TIER 2	40 HALLET ST DORCHESTER MA 02124	0.49 NE	5
70	SPILLS	SHELL OIL N90-1650	761 ADAMS DORCHESTER MA 02122	0.35 NW	1
71	SPILLS	SHELL STATION N91-0335	761 ADAMS ST DORCHESTER MA 02122	0.35 NW	1
72	SPILLS	SHELL STATION 3-0003328/TIER 2	761 ADAMS ST DOR BOSTON-BOSTON MA	0.34 NW	56
73	SPILLS	SUNOCO STATION 3-0001370/RAO	710 GALLIVAN BLVD DOR BOSTON-DORCHES MA	0.50 NE	57
74	SPILLS	T EQUIPMENT CORPORATION 3-0015333/RAO	170 GRANITE AVE DORCHESTER MA 02124	0.08 SE	25
75	SPILLS	UST REMOVAL N93-1033	140 GRANITE AVE DORCHESTER MA 02124	0.00 --	58
76	SPILLS	VEHICLE FUEL TANK N91-0208	ADAMS/MINOT DORCHESTER MA 02122	0.35 NW	1
77	SPILLS	N90-0943	761 ADAMS ST DORCHESTER MA 02122	0.35 NW	1
78	SPILLS	N90-1437	49 FRANCONIA ST DORCHESTER MA 02122	0.48 NE	59
79	SPILLS	N90-0665	10 GRANITE AVE DORCHESTER MA 02124	0.26 NW	4
80	UST	T EQUIPMENT CORP 0-014735	170 GRANITE AVE DORCHESTER MA 02124	0.08 SE	25

Environmental FirstSearch **Sites Summary Report**

TARGET SITE: 140 GRANITE AVE
 BOSTON MA 02124

JOB: 900

TOTAL: 136 **GEOCODED:** 80 **NON GEOCODED:** 56 **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
81	CERCLIS	SAFETY PROJECTS AND ENGINEERING (FO MAD980520399/NFRAP-N	MASS BAY FOUL AREA BOSTON MA	NON GC	
82	STATE	NO LOCATION AID 3-0020710/PRECLASSIFIED	285 WASHINGTON ST BOSTON-DORCHES MA 02124	NON GC	
83	STATE	SAFETY PROJECTS & ENG 3-0001639/DEF TIER 1B	MASS BAY FOUL AREA HARBOR BOSTON MA	NON GC	
84	STATE	NO LOCATION AID 3-0020853/PRECLASSIFIED	WASHINGTON ST MILTON MA 02186	NON GC	
85	STATE	NO LOCATION AID 3-0019468/DEF TIER 1B	RTE 93 SO MILTON MA 02186	NON GC	
86	SPIILLS	93 SOUTH BREAKDOWN LANE 3-0018699/RAO	SOUTHEAST EXPRESSWAY BOSTON MA	NON GC	
87	SPIILLS	ACROSS FROM PINE ST INN 3-0018808/RAO	RTE 93 S BOSTON MA	NON GC	
88	SPIILLS	ADJACENT TO DEWEY ST TUNNEL 3-0011357/RAO	EXPRESSWAY NORTH BOSTON MA	NON GC	
89	SPIILLS	AMTRAK N91-1327	ENGINE YARD BOSTON MA	NON GC	
90	SPIILLS	ASBESTOS N92-1508	WASHINGTON ST BOSTON MA	NON GC	
91	SPIILLS	BEACON PARK ADMIN BLDG 3-0011985	MASS TURNPIKE BOSTON MA	NON GC	
92	SPIILLS	BECO N90-0679	WASHINGTON ST. BOSTON MA	NON GC	
93	SPIILLS	BECO MH# 22158 N90-1097	WASHINGTON ST BOSTON MA	NON GC	
94	SPIILLS	EXCAVATION N91-1503	NORTH ST/AMERICAN LEGION HWY BOSTON MA	NON GC	
95	SPIILLS	FUEL TANK N91-1758	FUEL FARM BOSTON MA	NON GC	
96	SPIILLS	INTERSECTION 3-0014803/RAO	CONGRESS ST & EAST SERVICE RD BOSTON MA	NON GC	
97	SPIILLS	JET FUEL SPILL N93-1007	SOUTHBOUND CENTRAL ARTERY BOSTON MA	NON GC	
98	SPIILLS	MARTIN PLAYGROUND N91-1277	HILLTOP ST DORCHESTER MA 02124	NON GC	
99	SPIILLS	MASS TRNPKE N90-1146	EAST BOUND BOSTON MA	NON GC	
100	SPIILLS	MASSPORT N91-1732	OLD FIELD LIGHTING VAULT BOSTON MA	NON GC	

Environmental FirstSearch Sites Summary Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

TOTAL: 136 **GEOCODED:** 80 **NON GEOCODED:** 56 **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
101	SPILLS	MOTOR FREIGHT CARRIERS INC N92-1285	RTE 93S BOSTON MA	NON GC	
102	SPILLS	MTA BEACON PARK COMPLEX N93-0193	MA TURNPIKE MM 130.8 BOSTON MA	NON GC	
103	SPILLS	MTA PROPERTY N93-0634	LEHAURE ST BOSTON MA	NON GC	
104	SPILLS	NO LOCATION AID 3-0013054/RAO	CONGRESS ST BOSTON MA	NON GC	
105	SPILLS	NO LOCATION AID 3-0018465/RAO	NEPONSET RIVER TRL BOSTON MA	NON GC	
106	SPILLS	NO LOCATION AID 3-0020710/PRECLASSIFIED	285 WASHINGTON ST BOSTON-DORCHES MA 02124	NON GC	
107	SPILLS	NORTH OF OVERPASS AMTRAK RAIL LINE 3-0018158/RAO	NORFOLK ST BOSTON MA	NON GC	
108	SPILLS	OIL DUMPING N91-1299	30 AGNO ST BOSTON MA	NON GC	
109	SPILLS	POLE #635/5 N90-1191	MERSERS ST. BOSTON MA	NON GC	
110	SPILLS	RUTHERFORD AVE 3-0019596/RAO	RTE 99 S BOSTON MA	NON GC	
111	SPILLS	SAVIN HILL 3-0018093/RAO	RTE 93 SOUTH/EXPRESSWAY BOSTON MA	NON GC	
112	SPILLS	ST. ANTHONY S N91-0859	43 HOLLOW ST BOSTON MA	NON GC	
113	SPILLS	STORROW DR 3-0015983/RAO	LEE POOL BOSTON MA	NON GC	
114	SPILLS	TANK REMOVAL N91-1217	BOSTON MA	NON GC	
115	SPILLS	WBZ FUEL TANK RUPTURE N93-1335	MASS PIKE W BOSTON MA	NON GC	
116	SPILLS	N90-0600	BOSTON METRO CENTER BOSTON MA	NON GC	
117	SPILLS	N90-0657	WASHINGTON ST. BOSTON MA	NON GC	
118	SPILLS	ABANDONED UST N93-1162	WALNUT ST DORCHESTER MA 02122	NON GC	
119	SPILLS	COMMERCIAL POINT CSO FACILITY 3-0015339/RAO	VICTORY RD DORCHESTER MA 02122	NON GC	
120	SPILLS	OFF RAMP 3-0019489/RAO	195 NORTH AND EXIT 15 BOSTON MA 02122	NON GC	

Environmental FirstSearch *Sites Summary Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

TOTAL: 136 **GEOCODED:** 80 **NON GEOCODED:** 56 **SELECTED:** 0

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
121	SPILLS	OVERTURNED OIL TRUCK N92-0226	SE EXPRESSWAY BY NEPONSET CIRC DORCHESTER MA 02122	NON GC	
122	SPILLS	100 YDS NORTH OF NEPONSET VALLEY PK 3-0014108/RAO	RT 38 MILTON MA 02186	NON GC	
123	SPILLS	@ E MILTON SQ 3-0014972/RAO	RTE 93 NORTHBOUND MILTON MA 02186	NON GC	
124	SPILLS	BLUE HILL RESERVATION N93-0576	RTE 28 MILTON MA 02186	NON GC	
125	SPILLS	BRUSH HILL RD 3-0015539/RAO	NEPONSET VALLEY PKWY MILTON MA 02186	NON GC	
126	SPILLS	BTWN EXIT 10 & EXIT 11 3-0015325/RAO	RTE 93 SOUTHBOUND MILTON MA 02186	NON GC	
127	SPILLS	EAST MILTON SQ 3-0013504/RAO	BRYANT AVE MILTON MA 02186	NON GC	
128	SPILLS	EXIT 11 3-0018505/RAO	RTE 93 N MILTON MA 02186	NON GC	
129	SPILLS	MDC RESERVATION 3-0012168/RAO	TRUMAN HWY MILTON MA 02186	NON GC	
130	SPILLS	NO LOCATION AID 3-0018239/RAO	BLUE HILL RIVER RD MILTON MA 02186	NON GC	
131	SPILLS	NO LOCATION AID 3-0020853/PRECLASSIFIED	WASHINGTON ST MILTON MA 02186	NON GC	
132	SPILLS	NO LOCATION AID 3-0019468/DEF TIER 1B	RTE 93 SO MILTON MA 02186	NON GC	
133	SPILLS	RIVER SHEEN N92-1713	NEPONSET RIVER BY 2 ADAMS ST MILTON MA 02186	NON GC	
134	SPILLS	SHOULDER 3-0014013/RAO	BRUSH HILL RD MILTON MA 02186	NON GC	
135	SPILLS	VEH FUEL TANK RUPTURE N91-0452	RTE 93 (SOUTHBOUND) MILTON MA 02186	NON GC	
136	SPILLS	N90-0137	TRE 3 SOUTH EXIT 10 MILTON MA 02186	NON GC	

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 1 **DIST/DIR:** 0.81 NE **MAP ID:** 7

NAME: ATLANTIC FUELS MARKETING
ADDRESS: 500 NEPONSET AVE DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0001246
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 4/15/87
DELETED:

CONFIRMED: 1/15/91
REMOVED:

CATEGORY:
DATE: 4/15/87
PHASE: PHASE IV

21E STATUS: TIER 2
21E DATE: 2/26/01
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:
SOURCE:

SITE DESCRIPTION: GROUNDWATER RELEASE; GASOLINE PRESENT; VIRGIN OIL PRESENT; CONTAINED IN A LUST; CONTAINED IN A LEAKING AST; PETROLEUM PRESENT; TANK FARM SITE; SURFACE WATER RELEASE THREAT; RELEASE TO SOIL;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

SITE ACTIONS

TS DATE: 11/14/1997
AUL RESTRICTION:
LSP: DAVID AUSTIN
RA STATUS:
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 11/16/1998
AUL RESTRICTION:
LSP: DANA SIMPSON
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 9/14/1998
AUL RESTRICTION:
LSP: DANA SIMPSON

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 1 **DIST/DIR:** 0.81 NE **MAP ID:** 7

NAME: ATLANTIC FUELS MARKETING
ADDRESS: 500 NEPONSET AVE DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0001246
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 9/13/2000
AUL RESTRICTION:
LSP:
RA STATUS: WORK STARTED
RAS TYPE: URAM: UTILITY-RELATED ABATEMENT MEASURE
RAO CLASS:

TS DATE: 11/14/1997
AUL RESTRICTION:
LSP: DAVID AUSTIN
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 11/16/1998
AUL RESTRICTION:
LSP: DANA SIMPSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 11/12/1999
AUL RESTRICTION:
LSP: DEBRA STAKE
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 2/16/2001
AUL RESTRICTION:
LSP:
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 2/16/2001
AUL RESTRICTION:
LSP:
RA STATUS: MODIFIED, REVISED, OR UPDATED PLAN RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 3

DIST/DIR: 0.38 NE

MAP ID: 9

NAME: COMMERCIAL PROPERTY
ADDRESS: 638-640 GALLIVAN BLVD DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0004478
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

RAO CLASS:

TS DATE: 6/5/1995
AUL RESTRICTION:
LSP: JAMES LUKER
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 4

DIST/DIR: 0.49 NE

MAP ID: 10

NAME: D AMICO INC
ADDRESS: 41 HALLET ST DOR
BOSTON-DORCHESTER MA

REV: 1/29/01
ID1: 3-0000615
ID2:
STATUS: NDS
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 1/15/90
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 1/15/90
PHASE: NO PHASE

21E STATUS: NDS
21E DATE: 4/22/96
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

SITE ACTIONS

TS DATE: 19960422 00:00:00
AUL RESTRICTION:
LSP:
RA STATUS:
RAS TYPE: DEP-NDS
RAO CLASS:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 5 **DIST/DIR:** 0.86 NE **MAP ID:** 11

NAME: DENSMORE ST AND HANCOCK ST INTERSECTION
ADDRESS: 22-26 DENSMORE ST
QUINCY MA 02171

REV: 8/1/01
ID1: 3-0013889
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI:
DELETED:

CONFIRMED:
REMOVED:

CATEGORY: 120 DY
DATE: 6/11/96
PHASE: PHASE III

21E STATUS: TIER 2
21E DATE: 6/12/97
HAZMAT TYPE: OIL AND HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

TOTAL PETROLEUM HYDROCARBONS (TPH) 5700 MG/KG
TOTAL PETROLEUM HYDROCARBONS (TPH) 60 MG/L
ETHENE, CHLORO- 1.3 MG/L
ETHENE, TRICHLORO- .66 MG/L
ETHENE, TETRACHLORO- 14 MG/KG
ETHENE, 1,1-DICHLORO- .022 MG/L
CYANIDE .02 MG/L

SITE ACTIONS

TS DATE: 6/12/1997
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE: FEND
RAO CLASS:

TS DATE: 6/12/1997
AUL RESTRICTION:
LSP: COSMO GALLINARO
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 06/12/1997
ACT USE LIMITATION:
LSP: COSMO GALLINARO

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 5 **DIST/DIR:** 0.86 NE **MAP ID:** 11

NAME: DENSMORE ST AND HANCOCK ST INTERSECTION
ADDRESS: 22-26 DENSMORE ST
QUINCY MA 02171

REV: 8/1/01
ID1: 3-0013889
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 04/03/2001
ACT USE LIMITATION:
LSP: P DOUGLAS BURGESS
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:

ACT DATE: 03/22/2000
ACT USE LIMITATION:
LSP: P DOUGLAS BURGESS
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEII: PHASE II
RAO TYPE:

ACT DATE: 06/12/1997
ACT USE LIMITATION:
LSP: COSMO GALLINARO
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEI: PHASE I
RAO TYPE:

ACT DATE: 09/23/1998
ACT USE LIMITATION:
LSP: JOSEPH POLSINELLO
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 12

DIST/DIR: 0.51 NE

MAP ID: 3

NAME: EXXON GASOLINE STATION
ADDRESS: 719 GALLIVAN BLVD DOR
BOSTON-DORCHESTER MA

REV: 1/29/01
ID1: 3-0003327
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 10/15/90
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 10/15/90
PHASE: PHASE III

21E STATUS: RAO
21E DATE: 12/19/00
HAZMAT TYPE: OIL

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: CONTAINED IN A LUST; GAS STATION; GASOLINE PRESENT; RELEASE TO SOIL;

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

SITE ACTIONS

TS DATE: 19950605 00:00:00
AUL RESTRICTION:
LSP:
RA STATUS: FEE RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 19951010 00:00:00
AUL RESTRICTION:
LSP: DONALD POMEROY
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 19991102 00:00:00
AUL RESTRICTION:
LSP:
RA STATUS: NDMDRC
RAS TYPE: PHASEIII
RAO CLASS:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 12

DIST/DIR: 0.51 NE

MAP ID: 3

NAME: EXXON GASOLINE STATION
ADDRESS: 719 GALLIVAN BLVD DOR
BOSTON-DORCHESTER MA

REV: 1/29/01
ID1: 3-0003327
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

TS DATE: 19960804 00:00:00

AUL RESTRICTION:

LSP: DONALD POMEROY

RA STATUS: TRANSMITTAL RECEIVED

RAS TYPE: LSP-FA

RAO CLASS:

TS DATE: 19960411 00:00:00

AUL RESTRICTION:

LSP: DONALD POMEROY

RA STATUS: STATUS REPORT RECEIVED

RAS TYPE: RAM: RELEASE ABATEMENT MEASURE

RAO CLASS:

TS DATE: 19950616 00:00:00

AUL RESTRICTION:

LSP: DONALD POMEROY

RA STATUS: TRANSMITTAL RECEIVED

RAS TYPE: LSP-FA

RAO CLASS:

TS DATE: 19960805 00:00:00

AUL RESTRICTION:

LSP: DONALD POMEROY

RA STATUS: COMPLETION STATEMENT RECEIVED

RAS TYPE: PHASEI: PHASE I

RAO CLASS:

TS DATE: 19991102 00:00:00

AUL RESTRICTION:

LSP:

RA STATUS: NDMDRC

RAS TYPE: PHASEII

RAO CLASS:

TS DATE: 19970310 00:00:00

AUL RESTRICTION:

LSP:

RA STATUS: DONALD POMEROY

RAS TYPE: SCOPE OF WORK RECEIVED

RAO CLASS: PHASEII

TS DATE: 19950605 00:00:00

AUL RESTRICTION:

LSP: DONALD POMEROY

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE		
SEARCH ID: 12	DIST/DIR: 0.51 NE	MAP ID: 3
NAME: EXXON GASOLINE STATION ADDRESS: 719 GALLIVAN BLVD DOR BOSTON-DORCHESTER MA		REV: 1/29/01 ID1: 3-0003327 ID2: STATUS: TIER 2 PHONE:
CONTACT:		
RA STATUS: WRITTEN PLAN RECEIVED RAS TYPE: RAM: RELEASE ABATEMENT MEASURE RAO CLASS:		
TS DATE: 19990223 00:00:00 AUL RESTRICTION: LSP: BRUCE ROSS RA STATUS: NDMDRC RAS TYPE: PHASEII RAO CLASS:		
TS DATE: 19991209 00:00:00 AUL RESTRICTION: LSP: BRUCE ROSS RA STATUS: NDMDRC RAS TYPE: PHASEIII RAO CLASS:		
TS DATE: 20000224 00:00:00 AUL RESTRICTION: LSP: BRUCE ROSS RA STATUS: WRITTEN PLAN RECEIVED RAS TYPE: RAM: RELEASE ABATEMENT MEASURE RAO CLASS:		
TS DATE: 20000426 00:00:00 AUL RESTRICTION: LSP: BRUCE ROSS RA STATUS: COMPLETION STATEMENT RECEIVED RAS TYPE: RAM: RELEASE ABATEMENT MEASURE RAO CLASS:		
TS DATE: 20001219 00:00:00 AUL RESTRICTION: LSP: BRUCE ROSS RA STATUS: COMPLETION STATEMENT RECEIVED RAS TYPE: PHASEII RAO CLASS:		
TS DATE: 20001219 00:00:00 AUL RESTRICTION: NOT LSP: BRUCE ROSS RA STATUS: RAO STATEMENT RECEIVED RAS TYPE: RAO: RESPONSE ACTION OUTCOME RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO		
- More Details Exist For This Site; Max Page Limit Reached -		

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 13

DIST/DIR: 0.79 SW

MAP ID: 15

NAME: FABREEKA MILLS COMPLEX
ADDRESS: 7 MEDWAY & 1190 ADAMS STS DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0001826
ID2:
STATUS: DEF TIER 1B
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 1/15/89
DELETED:

CONFIRMED: 1/15/92
REMOVED:

CATEGORY:
DATE: 1/15/89
PHASE: PHASE II

21E STATUS: DEF TIER 1B
21E DATE: 12/8/96
HAZMAT TYPE: OIL AND HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: MANUFACTURING FACILITY; INDUSTRIAL SITE; METALS PRESENT; PETROLEUM PRESENT;
RELEASE TO SOIL; FORMER:

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

CHEMICALS

SITE ACTIONS

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 14

DIST/DIR: 0.49 SE

MAP ID: 2

NAME: FACILITY #72
ADDRESS: 73 GRANITE AVE
MILTON MA 02186

REV: 8/1/01
ID1: 3-0013564
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI:
DELETED:

CONFIRMED:
REMOVED:

CATEGORY: 120 DY
DATE: 3/14/96
PHASE: PHASE III

21E STATUS: TIER 2
21E DATE: 3/7/97
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

TOTAL PETROLEUM HYDROCARBONS (TPH) 9210 MG/KG
TOTAL PETROLEUM HYDROCARBONS (TPH) 796 MG/KG
TOTAL PETROLEUM HYDROCARBONS (TPH) 518 MG/KG

SITE ACTIONS

TS DATE: 3/7/1997
AUL RESTRICTION:
LSP: WILLIAM MALLIO
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 3/7/1997
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE: FEND
RAO CLASS:

ACT DATE: 01/16/1997
ACT USE LIMITATION:
LSP: WILLIAM MALLIO
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 14

DIST/DIR: 0.49 SE

MAP ID: 2

NAME: FACILITY #72
ADDRESS: 73 GRANITE AVE
MILTON MA 02186

REV: 8/1/01
ID1: 3-0013564
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

ACT DATE: 03/07/1997
ACT USE LIMITATION:
LSP: WILLIAM MALLIO
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 03/07/1997
ACT USE LIMITATION:
LSP: WILLIAM MALLIO
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEI: PHASE I
RAO TYPE:

ACT DATE: 08/15/2000
ACT USE LIMITATION:
LSP: MARK WELSH
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASII: PHASE II
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 15 **DIST/DIR:** 0.71 NE **MAP ID:** 16

NAME: GASOLINE STATION
ADDRESS: 815 GALLIVAN BLVD DOR
BOSTON-DORCHESTER MA

REV: 1/29/01
ID1: 3-0002669
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 1/15/90 **CONFIRMED:** 1/15/90
DELETED: **REMOVED:**

CATEGORY: **21E STATUS:** RAO
DATE: 1/15/90 **21E DATE:** 2/17/99
PHASE: PHASE II **HAZMAT TYPE:** OIL

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

SITE ACTIONS

TS DATE: 19970418 00:00:00
AUL RESTRICTION:
LSP: JAMES D OBRIEN
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEI: PHASE I
RAO CLASS:

TS DATE: 19990217 00:00:00
AUL RESTRICTION: NOT
LSP: KELLY MAMAN
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: RAO: RESPONSE ACTION OUTCOME
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

TS DATE: 19970418 00:00:00
AUL RESTRICTION:
LSP: JAMES D OBRIEN
RA STATUS:
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 16

DIST/DIR: 0.93 SW

MAP ID: 17

NAME: H P HOOD INC
ADDRESS: 44 WHARF ST
MILTON MA

REV: 8/1/01
ID1: 3-0002442
ID2:
STATUS: DEF TIER 1B
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 7/15/93
DELETED:

CONFIRMED: 10/1/93
REMOVED:

CATEGORY:
DATE: 7/15/93
PHASE: PHASE II

21E STATUS: DEF TIER 1B
21E DATE: 12/15/98
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: PETROLEUM PRESENT; METALS PRESENT; GASOLINE PRESENT; INDUSTRIAL SITE.
GROUNDWATER RELEASE: VIRGIN OIL PRESENT; **CONTAINED IN A LUST:** RELEASE TO SOIL: UNKNOWN AS TO WHAT IS
CONTAINED IN:

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE: COLD STORAGE FACILITY (N91-1772)

CHEMICALS

SITE ACTIONS

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 17

DIST/DIR: 0.91 SW

MAP ID: 18

NAME: LI L PEACH CONVENIENCE STORE
ADDRESS: 1153 WASHINGTON ST DOR
BOSTON-DORCHESTER MA

REV: 1/29/01
ID1: 3-0003985
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 10/1/93
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 10/1/93
PHASE: PHASE II

21E STATUS: RAO
21E DATE: 8/18/99
HAZMAT TYPE: OIL

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: GROUNDWATER RELEASE; CONTAINED IN A LEAKING AST; CONTAINED IN A LUST; GAS STATION; FORMER; PETROLEUM PRESENT; RELEASE TO SOIL;

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

SITE ACTIONS

TS DATE: 19950713 00:00:00
AUL RESTRICTION:
LSP:
RA STATUS: FEE RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 19950712 00:00:00
AUL RESTRICTION:
LSP: RICHARD RHEAUME
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 19960620 00:00:00
AUL RESTRICTION:
LSP: RICHARD RHEAUME
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 17

DIST/DIR: 0.91 SW

MAP ID: 18

NAME: L I L PEACH CONVENIENCE STORE
ADDRESS: 1153 WASHINGTON ST DOR
BOSTON-DORCHESTER MA

REV: 1/29/01
ID1: 3-0003985
ID2:
STATUS: RAO
PHONE:

CONTACT:

TS DATE: 19960102 00:00:00
AUL RESTRICTION:
LSP: RICHARD RHEAUME
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 19970811 00:00:00
AUL RESTRICTION:
LSP: MELVILLE DICKENSON
RA STATUS:
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 19970811 00:00:00
AUL RESTRICTION:
LSP: RICHARD RHEAUME
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEI: PHASE I
RAO CLASS:

TS DATE: 19950712 00:00:00
AUL RESTRICTION:
LSP: RICHARD RHEAUME
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 19990818 00:00:00
AUL RESTRICTION:
LSP: CRAIG BLAKE
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 19990818 00:00:00
AUL RESTRICTION: NOT
LSP: CRAIG BLAKE
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: RAO: RESPONSE ACTION OUTCOME
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 18 **DIST/DIR:** 0.75 NE **MAP ID:** 19

NAME: MDC FACILITY
ADDRESS: 475 NEPONSET AVE
BOSTON-DORCHESTER MA

REV: 5/10/01
ID1: 3-0010348
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: 72 HR **21E STATUS:** TIER 2
DATE: 12/22/93 **21E DATE:** 6/11/99
PHASE: PHASE II **HAZMAT TYPE:** OIL

RAO CLASS:

LOCATION TYPE: STATE,
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

DIESEL FUEL 65 PPM
DIESEL FUEL 65 PPMV

SITE ACTIONS

ACT DATE: 10/13/2000
ACT USE LIMITATION:
LSP: ILEEN GLADSTONE
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASII: PHASE II
RAO TYPE:

ACT DATE: 06/11/1999
ACT USE LIMITATION:
LSP: JAMES LUKER
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 05/20/1994
ACT USE LIMITATION:
LSP:
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

ACT DATE: 06/11/1999
ACT USE LIMITATION:
LSP: JAMES LUKER
ACT STATUS: COMPLETION STATEMENT RECEIVED

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 18

DIST/DIR: 0.75 NE

MAP ID: 19

NAME: MDC FACILITY
ADDRESS: 475 NEPONSET AVE
BOSTON-DORCHESTER MA

REV: 5/10/01
ID1: 3-0010348
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

ACT TYPE: PHASEI: PHASE I
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 19

DIST/DIR: 0.81 SW

MAP ID: 20

NAME: MEDWAY ST
ADDRESS: 1190 ADAMS ST
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0011850
ID2:
STATUS: DEF TIER 1B
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: TWO HR
DATE: 11/14/94
PHASE: NO PHASE

21E STATUS: DEF TIER 1B
21E DATE: 11/21/95
HAZMAT TYPE: HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE: CONDOS.
SOURCE: CREOSOTE; WOOD;
SITE DESCRIPTION:

CHEMICALS

BRICK OIL

SITE ACTIONS

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 20

DIST/DIR: 0.26 NW

MAP ID: 4

NAME: MOBIL STA GALLIVAN BLVD
ADDRESS: 10 GRANITE AVE
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0018573
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: 72 HR **21E STATUS:** TIER 2
DATE: 7/28/99 **21E DATE:** 8/4/00
PHASE: PHASE II **HAZMAT TYPE:** OIL

RAO CLASS:

LOCATION TYPE: COMMERCIAL
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

GASOLINE
GASOLINE 1680 PPMV

SITE ACTIONS

ACT DATE: 08/04/2000
ACT USE LIMITATION:
LSP: STEFAN SOKOL
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 08/04/2000
ACT USE LIMITATION:
LSP: STEFAN SOKOL
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEI: PHASE I
RAO TYPE:

ACT DATE: 11/28/2000
ACT USE LIMITATION:
LSP: JAMES YOUNG
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 21 **DIST/DIR:** 0.93 NW **MAP ID:** 21

NAME: NEMCH I-C
ADDRESS: 810-864 WASHINGTON ST
BOSTON-BOSTON MA

REV: 1/29/01
ID1: 3-0003485
ID2:
STATUS: NFA
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 1/15/91
DELETED:

CONFIRMED: 4/15/91
REMOVED:

CATEGORY:
DATE: 1/15/91
PHASE: PHASE II

21E STATUS: NFA
21E DATE: 9/27/93
HAZMAT TYPE: OIL AND HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:
SOURCE:

SITE DESCRIPTION: GROUNDWATER RELEASE; METALS PRESENT; CONTAINED IN A LUST; COMMERCIAL SITE;
FORMER; RELEASE TO SOIL: PETROLEUM PRESENT;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

SITE ACTIONS

TS DATE: 19930927 00:00:00
AUL RESTRICTION:
LSP:
RA STATUS:
RAS TYPE: WCS-PERM
RAO CLASS:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 22

DIST/DIR: 0.81 NE

MAP ID: 22

NAME: NEPONSET DRIVE-IN THEATRE
ADDRESS: OFF GALLIVAN BLVD DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0002228
ID2:
STATUS: TIER 1C
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 10/15/89
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 10/15/89
PHASE: PHASE II

21E STATUS: TIER 1C
21E DATE: 11/3/98
HAZMAT TYPE: HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

SITE ACTIONS

TS DATE: 11/3/1998
AUL RESTRICTION:
LSP:
RA STATUS: PERMISD
RAS TYPE: PERMIT
RAO CLASS:

TS DATE: 6/24/1998
AUL RESTRICTION:
LSP: WILLIAM SWANSON
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE I: PHASE I
RAO CLASS:

TS DATE: 6/24/1998
AUL RESTRICTION:
LSP: WILLIAM SWANSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 8/2/1996
AUL RESTRICTION:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 22

DIST/DIR: 0.81 NE

MAP ID: 22

NAME: NEPONSET DRIVE-IN THEATRE
ADDRESS: OFF GALLIVAN BLVD DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0002228
ID2:
STATUS: TIER 1C
PHONE:

CONTACT:

LSP:
RA STATUS:
RAS TYPE: DEP-ADREG
RAO CLASS:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 23 **DIST/DIR:** 0.68 NW **MAP ID:** 23

NAME: NO LOCATION AID
ADDRESS: 21 MERCIER AVE
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0020152
ID2:
STATUS: PRECLASSIFIED
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: TWO HR **21E STATUS:** PRECLASSIFIED
DATE: 11/26/00 **21E DATE:** 11/26/00
PHASE: NO PHASE **HAZMAT TYPE:** OIL

RAO CLASS:

LOCATION TYPE: RESIDENTIAL
SOURCE: PIPE;
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #2 100 GAL
FUEL OIL #2 135 GAL

SITE ACTIONS

ACT DATE: 05/11/2001
ACT USE LIMITATION:
LSP: ALFRED LEONARD
ACT STATUS: WRITTEN APPROVAL OF PLAN
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 24

DIST/DIR: 0.71 NE

MAP ID: 24

NAME: NO LOCATION AID
ADDRESS: 365 NEPONSET AVE
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0014536
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: 72 HR
DATE: 11/22/96
PHASE: PHASE II

21E STATUS: TIER 2
21E DATE: 10/4/99
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE: COMMERCIAL,
SOURCE: UNKNOWN;
SITE DESCRIPTION:

CHEMICALS

GASOLINE 2 INCH

SITE ACTIONS

ACT DATE: 12/22/2000
ACT USE LIMITATION:
LSP: DEBRA STAKE
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

ACT DATE: 10/04/1999
ACT USE LIMITATION:
LSP: NEIL RAM
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEI: PHASE I
RAO TYPE:

ACT DATE: 06/12/2000
ACT USE LIMITATION:
LSP: DEBRA STAKE
ACT STATUS: TIER 2 TRANSFER
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 09/01/2000
ACT USE LIMITATION:
LSP: DEBRA STAKE
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASII: PHASE II

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 25

DIST/DIR: 0.08 SE

MAP ID: 25

NAME: NO LOCATION AID
ADDRESS: 170 GRANITE AVE
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0012984
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI:
DELETED:

CONFIRMED:
REMOVED:

CATEGORY: 72 HR
DATE: 9/29/95
PHASE: PHASE II

21E STATUS: TIER 2
21E DATE: 11/20/96
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE: COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION: CONTAINED IN A LUST: RELEASE TO SOIL; COMMERCIAL SITE;

OTHER CONTAMINATION:
OTHER RELEASES: DIESEL FUEL
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

DIESEL FUEL

SITE ACTIONS

TS DATE: 11/20/1996
AUL RESTRICTION:
LSP: STEVEN KURZ
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 11/20/1996
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE: FEND
RAO CLASS:

ACT DATE: 11/20/1996
ACT USE LIMITATION:
LSP: STEVEN KURZ
ACT STATUS: COMPLETION STATEMENT RECEIVED

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 25

DIST/DIR: 0.08 SE

MAP ID: 25

NAME: NO LOCATION AID
ADDRESS: 170 GRANITE AVE
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0012984
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

ACT TYPE: PHASEI: PHASE I
RAO TYPE:

ACT DATE: 12/05/1995
ACT USE LIMITATION:
LSP: STEVEN KURZ
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

ACT DATE: 07/25/1997
ACT USE LIMITATION:
LSP: STEVEN KURZ
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:

ACT DATE: 11/20/1996
ACT USE LIMITATION:
LSP: STEVEN KURZ
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 26

DIST/DIR: 0.60 NE

MAP ID: 26

NAME: NO LOCATION AID
ADDRESS: 24 PIERCE AVE
BOSTON-DORCHESTER MA 02122

REV: 5/10/01
ID1: 3-0020401
ID2:
STATUS: PRECLASSIFIED
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: TWO HR **21E STATUS:** PRECLASSIFIED
DATE: 2/16/01 **21E DATE:** 2/16/01
PHASE: NO PHASE **HAZMAT TYPE:** OIL

RAO CLASS:

LOCATION TYPE: COMMERCIAL RESIDENTIAL
SOURCE: PIPE
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #2 10 GAL
FUEL OIL #2 20 GAL

SITE ACTIONS

ACT DATE: 02/16/2001
ACT USE LIMITATION:
LSP: RICHARD CUSHING
ACT STATUS: IRA ASSESSMENT ONLY
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 27

DIST/DIR: 1.00 NW

MAP ID: 27

NAME: NO LOCATION AID
ADDRESS: 93 BRENT ST
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0020479
ID2:
STATUS: PRECLASSIFIED
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: TWO HR **21E STATUS:** PRECLASSIFIED
DATE: 3/13/01 **21E DATE:** 3/13/01
PHASE: NO PHASE **HAZMAT TYPE:** OIL

RAO CLASS:

LOCATION TYPE: RESIDENTIAL
SOURCE: AST;
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #2 59 GAL

SITE ACTIONS

ACT DATE: 03/13/2001
ACT USE LIMITATION:
LSP: RALPH PENNEY
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 28

DIST/DIR: 0.37 NE

MAP ID: 28

NAME: OFFICE BUILDING
ADDRESS: 100 HALLET ST DOR
BOSTON-DORCHESTER MA

REV: 1/29/01
IDI: 3-0004473
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 7/15/93
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 7/15/93
PHASE: NO PHASE

21E STATUS: RAO
21E DATE: 8/1/97
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:
SOURCE:

SITE DESCRIPTION: GROUNDWATER RELEASE; CONTAINED IN A LUST; COMMERCIAL SITE; PETROLEUM
PRESENT: SURFACE WATER RELEASE THREAT; RELEASE TO SOIL;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

SITE ACTIONS

TS DATE: 19970801 00:00:00
AUL RESTRICTION: NON
LSP: COSMO GALLINARO
RA STATUS:
RAS TYPE: LSP-RAOEQ
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 29

DIST/DIR: 0.92 NW

MAP ID: 29

NAME: PEABODY CLEANERS
ADDRESS: 1767 DORCHESTER AVE
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0014289
ID2:
STATUS: DEF TIER 1B
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: TWO HR
DATE: 10/2/96
PHASE: NO PHASE
21E STATUS: DEF TIER 1B
21E DATE: 10/9/97
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE: COMMERCIAL,
SOURCE: AST;
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #2 75 GAL

SITE ACTIONS

ACT DATE: 10/02/1996
ACT USE LIMITATION:
LSP: LAWRENCE LESSARD
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 30 **DIST/DIR:** 0.42 NW **MAP ID:** 30

NAME: PROPERTY	REV: 1/29/01
ADDRESS: 288 MINOT ST. DOR	ID1: 3-0004297
BOSTON-DORCHESTER MA	ID2:
	STATUS: RAO
CONTACT:	PHONE:

SITE INFORMATION

LTBI: 7/15/93	CONFIRMED:
DELETED:	REMOVED:

CATEGORY:	21E STATUS: RAO
DATE: 7/15/93	21E DATE: 8/26/94
PHASE: PHASE I	HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:
SOURCE:

SITE DESCRIPTION: GROUNDWATER RELEASE: CONTAINED IN A LUST; RESIDENTIAL SITE; PETROLEUM
PRESENT; RELEASE TO SOIL:

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE: FORMER REPAIR GARAGE

SITE ACTIONS

TS DATE: 19940826 00:00:00

AUL RESTRICTION: NON

LSP: ROBERT BERGER

RA STATUS:

RAS TYPE: LSP-RAO

RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO
BACKGROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 31 **DIST/DIR:** 0.13 SE **MAP ID:** 31

NAME: RICCARDI CO
ADDRESS: 2 GRANITE AVE
MILTON MA

REV: 1/29/01
ID1: 3-0002507
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 1/15/90
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:

DATE: 1/15/90
PHASE: PHASE II

21E STATUS: RAO
21E DATE: 10/31/97
HAZMAT TYPE: OIL

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: GROUNDWATER RELEASE; INDUSTRIAL SITE; CONTAINED IN A LUST; PETROLEUM PRESENT;
RELEASE TO SOIL:

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

SITE ACTIONS

TS DATE: 19971031 00:00:00
AUL RESTRICTION: NOT
LSP: WILLIAM SIMMONS
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: RAO: RESPONSE ACTION OUTCOME
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

TS DATE: 19960809 00:00:00
AUL RESTRICTION:
LSP: WILLIAM SIMMONS
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE I: PHASE I
RAO CLASS:

TS DATE: 19960808 00:00:00
AUL RESTRICTION:
LSP: WILLIAM SIMMONS
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

- Continued on next page -

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 31 **DIST/DIR:** 0.13 SE **MAP ID:** 31

NAME: RICCARDI CO
ADDRESS: 2 GRANITE AVE
MILTON MA

REV: 1/29/01
ID1: 3-0002507
ID2:
STATUS: RAO
PHONE:

CONTACT:

TS DATE: 19960809 00:00:00
AUL RESTRICTION:
LSP: WILLIAM SIMMONS
RA STATUS:
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 32

DIST/DIR: 0.94 NW

MAP ID: 32

NAME: SEMONT ST
ADDRESS: 1742 DORCHESTER AVE
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0020459
ID2:
STATUS: PRECLASSIFIED
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY:	120 DY	21E STATUS:	PRECLASSIFIED
DATE:	2/8/01	21E DATE:	2/8/01
PHASE:	NO PHASE	HAZMAT TYPE:	OIL AND HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

LEAD 3.3 MG/L
UNKNOWN CHEMICAL OF TYPE - OIL 10740 UG/L
ZINC 17.8 MG/L
BENZ[A]ANTHRACENE 3.3 MG/KG
PROPANE, 2-METHOXY-2-METHYL- .93 MG/KG
NAPHTHALENE 6.06 MG/KG
CADMIUM .0318 MG/L
BENZENE, 1,3,5-TRIMETHYL- 1060 UG/L

SITE ACTIONS

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 33

DIST/DIR: 0.49 NE

MAP ID: 5

NAME: SENTRY SOUTH LINCOLN MERCURY
ADDRESS: 40 HALLET ST
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0015629
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI:
DELETED:

CONFIRMED:
REMOVED:

CATEGORY: 120 DY
DATE: 10/14/97
PHASE: PHASE II

ZIE STATUS: TIER 2
ZIE DATE: 10/15/98
HAZMAT TYPE: HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

INDENO(1,2,3-CD)PYRENE 2 MG/KG
UNKNOWN CHEMICAL OF UNKNOWN TYPE 4 MG/KG
UNKNOWN CHEMICAL OF UNKNOWN TYPE 4 MG/KG
LEAD 1200 MG/KG
UNKNOWN CHEMICAL OF UNKNOWN TYPE 4 MG/KG

SITE ACTIONS

TS DATE: 10/15/1998
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE: FEND
RAO CLASS:

TS DATE: 10/15/1998
AUL RESTRICTION:
LSP: THOMAS JORDAN
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 10/15/1998
ACT USE LIMITATION:
SP: THOMAS JORDAN
CT STATUS: COMPLETION STATEMENT RECEIVED
CT TYPE: PHASE: PHASE I

- Continued on next page -

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 33

DIST/DIR: 0.49 NE

MAP ID: 5

NAME: SENTRY SOUTH LINCOLN MERCURY
ADDRESS: 40 HALLET ST
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0015629
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

RAO TYPE:

ACT DATE: 10/15/1998
ACT USE LIMITATION:
LSP: THOMAS JORDAN
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 06/04/2001
ACT USE LIMITATION:
LSP: PAUL STEINBERG
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASII: PHASE II
RAO TYPE:

ACT DATE: 10/16/2000
ACT USE LIMITATION:
LSP: PAUL STEINBERG
ACT STATUS: NDMDRC
ACT TYPE: PHASIII: PHASE III
RAO TYPE:

ACT DATE: 08/16/2000
ACT USE LIMITATION:
LSP: PAUL STEINBERG
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 34 **DIST/DIR:** 0.97 NE **MAP ID:** 33

NAME: SHAFFER PROPERTY
ADDRESS: 75-105 TAYLOR ST & 7 WATER ST
BOSTON-DORCHESTER MA 02122

REV: 8/1/01
ID1: 3-0014073
ID2:
STATUS: TIER 1C
PHONE:

CONTACT:

SITE INFORMATION

LTBI:
DELETED:

CONFIRMED:
REMOVED:

CATEGORY: 120 DY
DATE: 7/31/96
PHASE: PHASE III

21E STATUS: TIER 1C
21E DATE: 6/23/97
HAZMAT TYPE: HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

BENZO[A]PYRENE .79 MG/KG
2-PROPANONE 25 MG/KG
METHANE, DICHLORO- 18000 MG/KG
CHRYSENE .76 MG/KG
ZINC 5600 MG/KG
LEAD 2760 MG/KG

SITE ACTIONS

TS DATE: 6/23/1997
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE: FEND
RAO CLASS:

TS DATE: 6/23/1997
AUL RESTRICTION:
LSP: JAMES LUKER
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 12/31/1998
ACT USE LIMITATION:
LSP: JAMES LUKER
ACT STATUS: COMPLETION STATEMENT RECEIVED

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 34

DIST/DIR: 0.97 NE

MAP ID: 33

NAME: SHAFFER PROPERTY
ADDRESS: 75-105 TAYLOR ST & 7 WATER ST
BOSTON-DORCHESTER MA 02122

REV: 8/1/01
ID1: 3-0014073
ID2:
STATUS: TIER 1C
PHONE:

CONTACT:

ACT TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:

ACT DATE: 02/13/1998
ACT USE LIMITATION:
LSP: JAMES LUKER
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEII: PHASE II
RAO TYPE:

ACT DATE: 06/23/1997
ACT USE LIMITATION:
LSP: JAMES LUKER
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEI: PHASE I
RAO TYPE:

ACT DATE: 11/03/1997
ACT USE LIMITATION:
LSP: JAMES LUKER
ACT STATUS: PEREFF
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 35

DIST/DIR: 0.90 NE

MAP ID: 34

NAME: SHELL OIL GASOLINE STATION
ADDRESS: 969 MORRISEY BLVD
BOSTON-DORCHESTER MA 02124

REV: 1/29/01
ID1: 3-0011379
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI:
DELETED:

CONFIRMED:
REMOVED:

CATEGORY: 72 HR
DATE: 7/26/94
PHASE: PHASE II

21E STATUS: RAO
21E DATE: 8/4/97
HAZMAT TYPE: OIL

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED. CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

LOCATION TYPE: COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION: CONTAINED IN A LUST; COMMERCIAL SITE;

OTHER CONTAMINATION:
OTHER RELEASES: TPH
OTHER PROBLEMS:
OTHER TYPE OF SITE:

SITE ACTIONS

TS DATE: 19950727 00:00:00
AUL RESTRICTION:
LSP: MICHAEL BINGHAM
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 19950727 00:00:00
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE: FEND
RAO CLASS:

ACT DATE: 07/27/1995
ACT USE LIMITATION:
LSP: MICHAEL BINGHAM
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE: PHASE I
RAO TYPE:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 35 **DIST/DIR:** 0.90 NE **MAP ID:** 34

NAME: SHELL OIL GASOLINE STATION
ADDRESS: 969 MORRISEY BLVD
BOSTON-DORCHESTER MA 02124

REV: 1/29/01
ID1: 3-0011379
ID2:
STATUS: RAO
PHONE:

CONTACT:

ACT DATE: 08/04/1997
ACT USE LIMITATION: NOTICE
LSP: GEORGE CAMPBELL
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RAO: RESPONSE ACTION OUTCOME
RAO TYPE: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

ACT DATE: 09/26/1994
ACT USE LIMITATION:
LSP: MICHAEL BINGHAM
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

ACT DATE: 08/15/1995
ACT USE LIMITATION:
LSP: MICHAEL BINGHAM
ACT STATUS: LEGNOT
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 08/04/1997
ACT USE LIMITATION:
LSP: GEORGE CAMPBELL
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: AUL: ACTIVITY AND USE LIMITATION
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 36

DIST/DIR: 0.90 NE

MAP ID: 35

NAME: SHELL SERVICE STA
ADDRESS: 969 MORRISSEY BLVD
BOSTON-DORCHESTER MA 02124

REV: 3/26/01
ID1: 3-0015138
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI:
DELETED:

CONFIRMED:
REMOVED:

CATEGORY: 72 HR
DATE: 5/27/97
PHASE: PHASE II

21E STATUS: TIER 2
21E DATE: 6/3/98
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE: COMMERCIAL
SOURCE: PIPE:
SITE DESCRIPTION: RELEASE TO SOIL: CONTAINED IN HOSE OR PIPE; CONTAINED IN A LUST; GASOLINE
PRESENT:

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

GASOLINE

SITE ACTIONS

TS DATE: 19980603 00:00:00
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 19980603 00:00:00
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE: FEND
RAO CLASS:

ACT DATE: 08/04/1997
ACT USE LIMITATION:
LSP: GEORGE CAMPBELL

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE			
SEARCH ID: 36	DIST/DIR: 0.90 NE	MAP ID: 35	
NAME: SHELL SERVICE STA ADDRESS: 969 MORRISSEY BLVD BOSTON-DORCHESTER MA 02124		REV: 3/26/01 ID1: 3-0015138 ID2: STATUS: TIER 2 PHONE:	
CONTACT:			
ACT STATUS: TRANSMITTAL RECEIVED ACT TYPE: AUL: ACTIVITY AND USE LIMITATION RAO TYPE:			
ACT DATE: 08/09/2000 ACT USE LIMITATION: LSP: THOMAS WILLIAMSON ACT STATUS: WRITTEN PLAN RECEIVED ACT TYPE: RAM: RELEASE ABATEMENT MEASURE RAO TYPE:			
ACT DATE: 08/09/2000 ACT USE LIMITATION: LSP: THOMAS WILLIAMSON ACT STATUS: COMPLETION STATEMENT RECEIVED ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION RAO TYPE:			
ACT DATE: 06/03/1998 ACT USE LIMITATION: LSP: GEORGE CAMPBELL ACT STATUS: COMPLETION STATEMENT RECEIVED ACT TYPE: PHASE1: PHASE I RAO TYPE:			
ACT DATE: 09/23/1998 ACT USE LIMITATION: LSP: GEORGE CAMPBELL ACT STATUS: TIER 2 TRANSFER ACT TYPE: TCLASS: TIER CLASSIFICATION RAO TYPE:			

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 37 **DIST/DIR:** 0.35 NW **MAP ID:** 1

NAME: SHELL STATION	REV: 8/1/01
ADDRESS: 761 ADAMS ST DOR	ID1: 3-0003328
BOSTON-BOSTON MA	ID2:
CONTACT:	STATUS: TIER 2
	PHONE:

SITE INFORMATION

LTBI: 10/15/90	CONFIRMED: 4/15/92
DELETED:	REMOVED:

CATEGORY:	21E STATUS: TIER 2
DATE: 10/15/90	21E DATE: 10/1/98
PHASE: PHASE II	HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: GASOLINE PRESENT; GROUNDWATER RELEASE; CONTAINED IN A LUST; RELEASE TO SOIL;
GAS STATION;

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

CHEMICALS

SITE ACTIONS

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 10/1/1998
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2TRANS
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: COMPLETION STATEMENT RECEIVED

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 37

DIST/DIR: 0.35 NW

MAP ID: 1

NAME: SHELL STATION
ADDRESS: 761 ADAMS ST DOR
BOSTON-BOSTON MA

REV: 8/1/01
ID1: 3-0003328
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

RAS TYPE: PHASEI: PHASE I
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS:
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 2/1/2001
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 38

DIST/DIR: 0.60 NE

MAP ID: 36

NAME: STOP & SHOP
ADDRESS: 757 GALIVAN BLVD. DOR
BOSTON-DORCHESTER MA

REV: 1/29/01
ID1: 3-0003674
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 7/15/91
DELETED:

CONFIRMED: 7/15/91
REMOVED:

CATEGORY:
DATE: 7/15/91
PHASE: PHASE I

21E STATUS: RAO
21E DATE: 8/5/97
HAZMAT TYPE: OIL

RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

SITE ACTIONS

TS DATE: 19970805 00:00:00
AUL RESTRICTION: NON
LSP: DEBORAH GEVALT

RA STATUS:
RAS TYPE: RAO: RESPONSE ACTION OUTCOME
RAC CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 39

DIST/DIR: 0.73 NW

MAP ID: 37

NAME: STORE 24
ADDRESS: 1886 DORCHESTER AVE DOR
BOSTON-DORCHESTER MA

REV: 1/29/01
ID1: 3-0003448
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 1/15/91
DELETED:

CONFIRMED: 7/15/92
REMOVED:

CATEGORY:
DATE: 1/15/91
PHASE: PHASE II

21E STATUS: RAO
21E DATE: 8/9/96
HAZMAT TYPE: OIL

RAO CLASS: BI - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: GROUNDWATER RELEASE; CONTAINED IN A LUST; GAS STATION; FORMER; RELEASE TO SOIL; PETROLEUM PRESENT;

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

SITE ACTIONS

TS DATE: 19960809 00:00:00

AUL RESTRICTION: NON

LSP: GEOFFREY MAY

RA STATUS:

RAS TYPE: RAO: RESPONSE ACTION OUTCOME

RAO CLASS: BI - REMEDIAL ACTIONS HAVE NOT BEEN CONDUCTED BECAUSE A LEVEL OF NO SIGNIFICANT RISK EXISTS.

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 40

DIST/DIR: 0.81 SW

MAP ID: 38

NAME: SUNOCO STATION
ADDRESS: 976 WASHINGTON ST DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0003700
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 10/15/91
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 10/15/91
PHASE: PHASE IV

21E STATUS: TIER 2
21E DATE: 12/30/96
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION: GASOLINE PRESENT; GAS STATION;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

SITE ACTIONS

TS DATE: 3/19/2001
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: R/PRCVD
RAS TYPE: PHASE IV
RAO CLASS:

TS DATE: 8/3/1999
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/7/1999
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE II

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 40

DIST/DIR: 0.81 SW

MAP ID: 38

NAME: SUNOCO STATION
ADDRESS: 976 WASHINGTON ST DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0003700
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

RAO CLASS:

TS DATE: 3/25/1999
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO CLASS:

TS DATE: 12/30/1996
AUL RESTRICTION:
LSP: JOSEPH LANDYN
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEI: PHASE I
RAO CLASS:

TS DATE: 12/30/1996
AUL RESTRICTION:
LSP: JOSEPH LANDYN
RA STATUS:
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 10/23/1998
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 1/13/2000
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASEIII
RAO CLASS:

TS DATE: 3/24/2000
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

- Continued on next page -

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SITE

SEARCH ID: 40

DIST/DIR: 0.81 SW

MAP ID: 38

NAME: SUNOCO STATION
ADDRESS: 976 WASHINGTON ST DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0003700
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

TS DATE: 11/14/2000
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 12/23/1998
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 11/14/2000
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: MODIFIED, REVISED, OR UPDATED PLAN RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 10/7/1998
AUL RESTRICTION:
LSP: GEORGE CAMPBELL
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 44

DIST/DIR: 0.28 NW

MAP ID: 40

NAME: ACCESS ELECTRONICS
ADDRESS: 526 GALLIVAN BLVD
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0010390
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: TWO HR
DATE: 1/3/94
PHASE: NO PHASE
21E STATUS: RAO
21E DATE: 12/19/94
HAZMAT TYPE: OIL

RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND

LOCATION TYPE: COMMERCIAL,
SOURCE: AST;
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #2 50 GAL
FUEL OIL #2

SITE ACTIONS

ACT DATE: 12/16/1994
ACT USE LIMITATION: NONE
LSP: RAYMOND BALL
ACT STATUS: FEE RECEIVED
ACT TYPE: RAO: RESPONSE ACTION OUTCOME
RAO TYPE: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND

ACT DATE: 06/10/1994
ACT USE LIMITATION:
LSP: RAYMOND BALL
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 45

DIST/DIR: 0.42 NW

MAP ID: 41

NAME: ACROSS FROM SARANAC
ADDRESS: 2 WESTMORLAND ST
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0019185
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: TWO HR **21E STATUS:** RAO
DATE: 1/20/00 **21E DATE:** 3/10/00
PHASE: NO PHASE **HAZMAT TYPE:** OIL

RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO
BACKGROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

LOCATION TYPE: RESIDENTIAL
SOURCE: AST; PIPE
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #2 20 GAL
FUEL OIL #2 12 GAL

SITE ACTIONS

ACT DATE: 03/10/2000
ACT USE LIMITATION: NONE
LSP: PAUL GABRIEL
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RAO: RESPONSE ACTION OUTCOME
RAO TYPE: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO
BACKGROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 01/20/2000
ACT USE LIMITATION:
LSP: PHILIP MCBAIN
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 46

DIST/DIR: 0.42 NW

MAP ID: 30

NAME: BELOW-GRND TANK OVERFILL
ADDRESS: 288 MINOT ST BY FREDERIKA ST
BOSTON MA

REV:
ID1: N91-1107
ID2: 3-4297
STATUS:
PHONE:

CONTACT: NDI, K

CASE CLOSED? YES
SPILL DATE: 19910810
DATE REPORTED: 19910810
SPILL NOTIFIER: FD

SPILL TIME:
REPORT TIME: 12:45PM
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: OVERFILL
MATERIAL SPILLED: GASOLINE
AMT RPTD SPILLED: UNKNOWN -----
SOURCE OF SPILL: U.S.T.
PET/HAZ: PETROLEUM
PCB LEVEL: UNKNOWN

ACTUAL AMT SPILLED: UNKNOWN -----
VIR/WASTE: VIRGIN

ENVIRONMENTAL IMPACT: SOIL

LUST?: NO
CONTRACTOR: NOT USED
DAYS/CLOSE: 0

SOIL CONTAMINATED?:
PREPARE REPORT:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 47

DIST/DIR: 0.37 NE

MAP ID: 28

NAME: BFI
ADDRESS: 100 HALLET ST
BOSTON MA
SUFFOLK
CONTACT: BOYLE, T

REV:
ID1: N93-0386
ID2: 3-4473
STATUS:
PHONE:

CASE CLOSED? YES
SPILL DATE: 19930405
DATE REPORTED: 19930405
SPILL NOTIFIER: LESLIE LAUGHLIN/BFI

SPILL TIME:
REPORT TIME: 11:30AM
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: LEAK
MATERIAL SPILLED: #2 FUEL OIL
AMT RPTD SPILLED: UNKNOWN -----
SOURCE OF SPILL: U.S.T.
PET/HAZ: PETROLEUM
PCB LEVEL: NONE

ACTUAL AMT SPILLED: UNKNOWN -----
VIR/WASTE: VIRGIN

ENVIRONMENTAL IMPACT: -----

LUST?: —
CONTRACTOR: NOT USED
DAYS/CLOSE: 0

SOIL CONTAMINATED?:
PREPARE REPORT:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 48

DIST/DIR: 0.08 SE

MAP ID: 25

NAME: BRUSH HILL TRANSPORTATION
ADDRESS: 170R GRANITE & 62R HILLTOP DOR
DORCHESTER MA 02124

REV: 1/29/01
ID1: 3-0001984
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 1/15/89
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 1/15/89
PHASE: PHASE I

21E STATUS: RAO
21E DATE: 10/7/97
HAZMAT TYPE: OIL

RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

SITE ACTIONS

TS DATE: 19971007 00:00:00
AUL RESTRICTION: NON
LSP: STEVEN KURZ

RA STATUS:
RAS TYPE: RAO: RESPONSE ACTION OUTCOME
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND

TS DATE: 19971002 00:00:00
AUL RESTRICTION:
LSP:
RA STATUS: FEE RECEIVED
RAS TYPE: RAO: RESPONSE ACTION OUTCOME
RAO CLASS:

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 49

DIST/DIR: 0.28 NW

MAP ID: 42

NAME: CITGO STATION
ADDRESS: 497 GALLIVAN BLVD
BOSTON MA
SUFFOLK
CONTACT: STEWART, B

REV:
ID1: N91-0527
ID2: 3-3698
STATUS:
PHONE:

CASE CLOSED? YES

SPILL DATE:

DATE REPORTED: 19910422

SPILL NOTIFIER: GARY BROBERS/ENVIRO BUSINESS

SPILL TIME:

REPORT TIME:

11:45AM

NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: TANK REMOVAL
MATERIAL SPILLED: GASOLINE
AMT RPTD SPILLED: UNKNOWN -----
SOURCE OF SPILL: U.S.T.
PET/HAZ: PETROLEUM
PCB LEVEL: NONE

ACTUAL AMT SPILLED: -----

VIR/WASTE: VIRGIN

ENVIRONMENTAL IMPACT: SOIL

LUST?: NO
CONTRACTOR: NOT USED
DAYS/CLOSE: 0

SOIL CONTAMINATED?:
PREPARE REPORT:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 50

DIST/DIR: 0.40 NE

MAP ID: 43

NAME: COMMERCIAL PROPERTY
ADDRESS: 638-640 GALLIVAN BLVD DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0004478
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 7/15/93
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 7/15/93
PHASE: PHASE II

21E STATUS: TIER 2
21E DATE: 2/12/98
HAZMAT TYPE: OIL AND HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: CHLORINATED SOLVENTS PRESENT; COMMERCIAL SITE;

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

CHEMICALS

SITE ACTIONS

TS DATE: 7/7/1995
AUL RESTRICTION:
LSP: JAMES LUKER
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE II
RAO CLASS:

TS DATE: 2/12/1998
AUL RESTRICTION:
LSP: COSMO GALLINARO
RA STATUS:
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 2/12/1998
AUL RESTRICTION:
LSP: COSMO GALLINARO
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE I: PHASE I

- Continued on next page -

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 50

DIST/DIR: 0.40 NE

MAP ID: 43

NAME: COMMERCIAL PROPERTY
ADDRESS: 638-640 GALLIVAN BLVD DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0004478
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

RAO CLASS:

TS DATE: 6/5/1995
AUL RESTRICTION:
LSP: JAMES LUKER
RA STATUS: SCOPE OF WORK RECEIVED
RAS TYPE: PHASEII
RAO CLASS:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 51	DIST/DIR: 0.39 NW	MAP ID: 44
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NAME: DELS AUTO
ADDRESS: 280 MINOT ST
BOSTON/DORCHESTER MA
SUFFOLK
CONTACT: FAGAN, J

REV:
ID1: N93-1253
ID2: 0000
STATUS:
PHONE:

CASE CLOSED? YES
SPILL DATE:
DATE REPORTED: 19930916
SPILL NOTIFIER: LISA INGEMI

SPILL TIME:
REPORT TIME: 01:50PM
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: OTHER RELEASE > SLOPPING HOUSEK
MATERIAL SPILLED: OTHER MATERIAL -->
AMT RPTD SPILLED: -----
SOURCE OF SPILL: VEH, FUEL TANK
PET/HAZ: NEITHER
PCB LEVEL: NONE

ACTUAL AMT SPILLED: VAPORS -----
VIR/WASTE: WASTE

ENVIRONMENTAL IMPACT:

LUST?: NO
CONTRACTOR: NOT USED
DAYS/CLOSE: 0

SOIL CONTAMINATED?:
PREPARE REPORT:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 52

DIST/DIR: 0.49 SE

MAP ID: 45

NAME: FACILITY #72
ADDRESS: 73 GRANITE AVE
MILTON MA 02186

REV: 8/1/01
ID1: 3-0013564
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI:
DELETED:

CONFIRMED:
REMOVED:

CATEGORY: 120 DY
DATE: 3/14/96
PHASE: PHASE III

21E STATUS: TIER 2
21E DATE: 3/7/97
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

TOTAL PETROLEUM HYDROCARBONS (TPH) 796 MG/KG
TOTAL PETROLEUM HYDROCARBONS (TPH) 518 MG/KG
TOTAL PETROLEUM HYDROCARBONS (TPH) 9210 MG/KG

SITE ACTIONS

TS DATE: 3/7/1997
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE: FEND
RAO CLASS:

TS DATE: 3/7/1997
AUL RESTRICTION:
LSP: WILLIAM MALLIO
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 03/07/1997
ACT USE LIMITATION:
LSP: WILLIAM MALLIO
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

- Continued on next page -

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 52

DIST/DIR: 0.49 SE

MAP ID: 45

NAME: FACILITY #72
ADDRESS: 73 GRANITE AVE
MILTON MA 02186

REV: 8/1/01
ID1: 3-0013564
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

ACT DATE: 08/15/2000
ACT USE LIMITATION:
LSP: MARK WELSH
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASII: PHASE II
RAO TYPE:

ACT DATE: 03/07/1997
ACT USE LIMITATION:
LSP: WILLIAM MALLIO
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEI: PHASE I
RAO TYPE:

ACT DATE: 01/16/1997
ACT USE LIMITATION:
LSP: WILLIAM MALLIO
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 53

DIST/DIR: 0.35 NW

MAP ID: 46

NAME: GALLIVAN BLVD
ADDRESS: GALVIN AND ADAMS ST
BOSTON-BOSTON MA 02124

REV: 8/1/01
ID1: 3-0011864
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: TWO HR **21E STATUS:** RAO
DATE: 11/17/94 **21E DATE:** 1/17/95
PHASE: NO PHASE **HAZMAT TYPE:** OIL

RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO
BACKGROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

LOCATION TYPE: ROADWAY,
SOURCE: FUELTANK;
SITE DESCRIPTION:

CHEMICALS

DIESEL FUEL 15 GAL
DIESEL FUEL 25 GAL

SITE ACTIONS

ACT DATE: 01/17/1995
ACT USE LIMITATION: NONE
LSP: GARY SIEGEL
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RAO: RESPONSE ACTION OUTCOME
RAO TYPE: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO
BACKGROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 11/17/1994
ACT USE LIMITATION:
LSP: GARY SIEGEL
ACT STATUS: ORAL APPROVAL OF PLAN
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 54 **DIST/DIR:** 0.26 NW **MAP ID:** 4

NAME: MOBIL GAS STATION	REV:
ADDRESS: 10 GRANITE AVE	ID1: N91-0835
BOSTON MA	ID2: 0000
SUFFOLK	STATUS:
CONTACT: ARMSTRONG, V	PHONE:

CASE CLOSED? YES	
SPILL DATE: 19910620	SPILL TIME:
DATE REPORTED: 19910620	REPORT TIME: 10:20AM
SPILL NOTIFIER: A LEMMONS/MOBIL	NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: LEAK	
MATERIAL SPILLED: GASOLINE	
AMT RPTD SPILLED: UNKNOWN -----	ACTUAL AMT SPILLED: -----
SOURCE OF SPILL: U.S.T.	
PET/HAZ: PETROLEUM	VIR/WASTE: VIRGIN
PCB LEVEL: NONE	

ENVIRONMENTAL IMPACT:

LUST?: YES	SOIL CONTAMINATED?:
CONTRACTOR: NOT USED	PREPARE REPORT:
DAYS/CLOSE: 1	

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 55 **DIST/DIR:** 0.26 NW **MAP ID:** 4

NAME: MOBIL STA GALLIVAN BLVD
ADDRESS: 10 GRANITE AVE
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0018573
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: 72 HR **21E STATUS:** TIER 2
DATE: 7/28/99 **21E DATE:** 8/4/00
PHASE: PHASE II **HAZMAT TYPE:** OIL

RAO CLASS:

LOCATION TYPE: COMMERCIAL
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

GASOLINE 1680 PPMV
GASOLINE

SITE ACTIONS

ACT DATE: 08/04/2000
ACT USE LIMITATION:
LSP: STEFAN SOKOL
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE I: PHASE I
RAO TYPE:

ACT DATE: 08/04/2000
ACT USE LIMITATION:
LSP: STEFAN SOKOL
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 11/28/2000
ACT USE LIMITATION:
LSP: JAMES YOUNG
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 56

DIST/DIR: 0.49 NE

MAP ID: 5

NAME: NEPONSET LINCOLN MERCURY
ADDRESS: HALLET ST
BOSTON MA
SUFFOLK
CONTACT: SAYERS, S

REV:
ID1: N92-1394
ID2: 0000
STATUS:
PHONE:

CASE CLOSED? YES
SPILL DATE: 19921026
DATE REPORTED: 19921026
SPILL NOTIFIER: TOM CONDON/EPA

SPILL TIME:
REPORT TIME:
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: DUMPING
MATERIAL SPILLED: ETHELYNE GLYCOL, A/FREEZE
AMT RPTD SPILLED: -----
SOURCE OF SPILL: OTHER SOURCE > VEHICLE
PET/HAZ: HAZARDOUS
PCB LEVEL: -----

ACTUAL AMT SPILLED: -----
VIR/WASTE: WASTE

ENVIRONMENTAL IMPACT: -----

LUST?: ---
CONTRACTOR: NOT USED
DAYS/CLOSE: 0

SOIL CONTAMINATED?:
PREPARE REPORT:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 57

DIST/DIR: 0.50 NE

MAP ID: 47

NAME: NO LOCATION AID
ADDRESS: 39 GLIDE ST
BOSTON-DORCHESTER MA 02122

REV: 8/1/01
ID1: 3-0014295
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: 72 HR
DATE: 10/3/96
PHASE: NO PHASE

21E STATUS: RAO
21E DATE: 9/24/97
HAZMAT TYPE: OIL

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

LOCATION TYPE: RESIDENTIAL
SOURCE: UST;
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #2 100 PPMV

SITE ACTIONS

ACT DATE: 09/24/1997
ACT USE LIMITATION:
LSP: JOSEPH SALVETTI
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

ACT DATE: 09/24/1997
ACT USE LIMITATION: NOTICE
LSP: JOSEPH SALVETTI
ACT STATUS: FEE RECEIVED
ACT TYPE: RAO: RESPONSE ACTION OUTCOME
RAO TYPE: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 58

DIST/DIR: 0.49 NE

MAP ID: 48

NAME: NO LOCATION AID
ADDRESS: 719 GALLIVAN BLVD
BOSTON-DORCHESTER MA 02122

REV: 8/1/01
ID1: 3-0018030
ID2:
STATUS: RTN CLOSED
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: 120 DY
DATE: 2/23/99
PHASE: NO PHASE

21E STATUS: RTN CLOSED
21E DATE: 2/24/00
HAZMAT TYPE: HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

BENZ[A]ANTHRACENE 1 PPM
BENZO[A]PYRENE 1 PPM
DIBENZ[A,H]ANTHRACENE 1.7 PPM

SITE ACTIONS

ACT DATE: 02/24/2000
ACT USE LIMITATION:
LSP: BRUCE ROSS
ACT STATUS: RELATED TO A TIER CLASSIFIED SITE
ACT TYPE: RAONR: RAO NOT REQUIRED
RAO TYPE:

ACT DATE: 08/20/1999
ACT USE LIMITATION:
LSP: BRUCE ROSS
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:

ACT DATE: 12/09/1999
ACT USE LIMITATION:
LSP: BRUCE ROSS
ACT STATUS: NDMDRC
ACT TYPE: PHSIII: PHASE III
RAO TYPE:

ACT DATE: 12/09/1999
ACT USE LIMITATION:
LSP: BRUCE ROSS

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 58

DIST/DIR: 0.49 NE

MAP ID: 48

NAME: NO LOCATION AID
ADDRESS: 719 GALLIVAN BLVD
BOSTON-DORCHESTER MA 02122

REV: 8/1/01
ID1: 3-0018030
ID2:
STATUS: RTN CLOSED
PHONE:

CONTACT:

ACT STATUS: NDMDC
ACT TYPE: PHASII: PHASE II
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 59

DIST/DIR: 0.08 SE

MAP ID: 25

NAME: NO LOCATION AID
ADDRESS: 170 GRANITE AVE
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0012984
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI:
DELETED:

CONFIRMED:
REMOVED:

CATEGORY: 72 HR
DATE: 9/29/95
PHASE: PHASE II

21E STATUS: TIER 2
21E DATE: 11/20/96
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE: COMMERCIAL,
SOURCE: UST;
SITE DESCRIPTION: RELEASE TO SOIL; COMMERCIAL SITE; CONTAINED IN A LUST;

OTHER CONTAMINATION:
OTHER RELEASES: DIESEL FUEL
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

DIESEL FUEL

SITE ACTIONS

TS DATE: 11/20/1996
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE: FEND
RAO CLASS:

TS DATE: 11/20/1996
AUL RESTRICTION:
LSP: STEVEN KURZ
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

ACT DATE: 11/20/1996
ACT USE LIMITATION:
LSP: STEVEN KURZ
ACT STATUS: TIER 2 CLASSIFICATION

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 59

DIST/DIR: 0.08 SE

MAP ID: 25

NAME: NO LOCATION AID
ADDRESS: 170 GRANITE AVE
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0012984
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 11/20/1996
ACT USE LIMITATION:
LSP: STEVEN KURZ
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE I: PHASE I
RAO TYPE:

ACT DATE: 07/25/1997
ACT USE LIMITATION:
LSP: STEVEN KURZ
ACT STATUS: STATUS REPORT RECEIVED
ACT TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:

ACT DATE: 12/05/1995
ACT USE LIMITATION:
LSP: STEVEN KURZ
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 60

DIST/DIR: 0.49 NW

MAP ID: 49

NAME: NO LOCATION AID
ADDRESS: 699-703 ADAMS ST
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0013058
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: 72 HR
DATE: 10/19/95
PHASE: NO PHASE
21E STATUS: RAO
21E DATE: 12/13/95
HAZMAT TYPE: OIL

RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKGROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

LOCATION TYPE: RESIDENTIAL
SOURCE: UST
SITE DESCRIPTION:

CHEMICALS

FUEL OIL #2 1100 PPM

SITE ACTIONS

ACT DATE: 12/13/1995
ACT USE LIMITATION: NONE
LSP: GILBERT JOLY
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RAO: RESPONSE ACTION OUTCOME
RAO TYPE: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO BACKGROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 12/13/1995
ACT USE LIMITATION:
LSP: GILBERT JOLY
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 61

DIST/DIR: 0.40 NE

MAP ID: 50

NAME: OFFICE BUILDING
ADDRESS: 100 HALLET ST DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0004473
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 7/15/93
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 7/15/93
PHASE: NO PHASE

21E STATUS: RAO
21E DATE: 8/1/97
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:
SOURCE:

SITE DESCRIPTION: COMMERCIAL SITE; RELEASE TO SOIL; SURFACE WATER RELEASE THREAT; CONTAINED IN A
LUST; GROUNDWATER RELEASE; PETROLEUM PRESENT;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

CHEMICALS

SITE ACTIONS

TS DATE: 8/1/1997
AUL RESTRICTION: NON
LSP: COSMO GALLINARO

RA STATUS:
RAS TYPE: LSP-RAOEQ
RAO CLASS: A2 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 62

DIST/DIR: 0.41 NW

MAP ID: 51

NAME: PROPERTY
ADDRESS: 288 MINOT ST. DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0004297
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 7/15/93
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 7/15/93
PHASE: PHASE I

21E STATUS: RAO
21E DATE: 8/26/94
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:
SOURCE:

SITE DESCRIPTION: GROUNDWATER RELEASE; CONTAINED IN A LUST; PETROLEUM PRESENT; RESIDENTIAL
SITE; RELEASE TO SOIL;

OTHER CONTAMINATION:
OTHER RELEASES:
OTHER PROBLEMS:
OTHER TYPE OF SITE:

FORMER REPAIR GARAGE

CHEMICALS

SITE ACTIONS

TS DATE: 8/26/1994
AUL RESTRICTION: NON
LSP: ROBERT BERGER

RA STATUS:
RAS TYPE: LSP-RAO
RAO CLASS: AI - A PERMANENT SOLUTION HAS BEEN ACHIEVED; CONTAMINATION HAS BEEN REDUCED TO
BACKGROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 63

DIST/DIR: 0.50 NW

MAP ID: 52

NAME: RESIDENTIAL
ADDRESS: 6 HURON CIR
BOSTON MA
SUFFOLK
CONTACT: GORRASI, M

REV:
ID1: N92-0028
ID2: 0000
STATUS:
PHONE:

CASE CLOSED? YES
SPILL DATE: 19920108
DATE REPORTED: 19920108
SPILL NOTIFIER: JACK THOMPSON/ATLAS

SPILL TIME:
REPORT TIME: 11:10AM
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: -----
MATERIAL SPILLED: #2 FUEL OIL
AMT RPTD SPILLED: UNKNOWN -----
SOURCE OF SPILL: -----
PET/HAZ: PETROLEUM
PCB LEVEL: -----

ACTUAL AMT SPILLED: UNKNOWN -----
VIR/WASTE: -----

ENVIRONMENTAL IMPACT:

LUST?: NO
CONTRACTOR: NOT USED
DAYS/CLOSE: 1

SOIL CONTAMINATED?:
PREPARE REPORT:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 64

DIST/DIR: 0.20 NW

MAP ID: 53

NAME: RESIDENTIAL
ADDRESS: 29 MYRTLE BANK AVE
BOSTON MA
SUFFOLK
CONTACT: FONKEM, V

REV:
ID1: N92-1205
ID2: 0000
STATUS:
PHONE:

CASE CLOSED? YES
SPILL DATE: 19920920
DATE REPORTED: 19920921
SPILL NOTIFIER: JACK THOMPSON/ATLAS

SPILL TIME:
REPORT TIME: 01:50PM
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: LEAK
MATERIAL SPILLED: #2 FUEL OIL
AMT RPTD SPILLED: 11-50 GALLONS
SOURCE OF SPILL: PIPE/HOSE/LINE
PET/HAZ: PETROLEUM
PCB LEVEL: NONE

ACTUAL AMT SPILLED: ----- GALLONS
VIR/WASTE: VIRGIN

ENVIRONMENTAL IMPACT: -----

LUST?: NO
CONTRACTOR: NOT USED
DAYS/CLOSE: 0

SOIL CONTAMINATED?:
PREPARE REPORT:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 65

DIST/DIR: 0.13 SE

MAP ID: 31

NAME: RICCARDI CO
ADDRESS: 2 GRANITE AVE
MILTON MA
NORFOLK
CONTACT: MACAFEE, K

REV:
IDI: N91-0128
ID2: 3-2507
STATUS:
PHONE:

CASE CLOSED? YES
SPILL DATE: 19910131
DATE REPORTED: 19910131
SPILL NOTIFIER: PAUL CASS

SPILL TIME:
REPORT TIME: 09:25AM
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: TANK REMOVAL
MATERIAL SPILLED: OTHER MATERIAL -->
AMT RPTD SPILLED: UNKNOWN -----
SOURCE OF SPILL: U.S.T.
PET/HAZ: PETROLEUM
PCB LEVEL: -----

ACTUAL AMT SPILLED: -----
VIR/WASTE: VIRGIN

ENVIRONMENTAL IMPACT: SOIL

LUST?: NO
CONTRACTOR: NOT USED
DAYS/CLOSE: 0

SOIL CONTAMINATED?:
PREPARE REPORT:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 66

DIST/DIR: 0.13 SE

MAP ID: 31

NAME: RICCARDI CO
ADDRESS: 2 GRANITE AVE
MILTON MA

REV: 8/1/01
ID1: 3-0002507
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 1/15/90
DELETED:

CONFIRMED:
REMOVED:

CATEGORY:
DATE: 1/15/90
PHASE: PHASE II

21E STATUS: RAO
21E DATE: 10/31/97
HAZMAT TYPE: OIL

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: PETROLEUM PRESENT; CONTAINED IN A LUST; INDUSTRIAL SITE; GROUNDWATER RELEASE:
RELEASE TO SOIL:

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

CHEMICALS

SITE ACTIONS

TS DATE: 8/9/1996
AUL RESTRICTION:
LSP: WILLIAM SIMMONS
RA STATUS:
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 8/8/1996
AUL RESTRICTION:
LSP: WILLIAM SIMMONS
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 10/31/1997
AUL RESTRICTION: NOT
LSP: WILLIAM SIMMONS

- Continued on next page -

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 66

DIST/DIR: 0.13 SE

MAP ID: 31

NAME: RICCARDI CO
ADDRESS: 2 GRANITE AVE
MILTON MA

REV: 8/1/01
ID1: 3-0002507
ID2:
STATUS: RAO
PHONE:

CONTACT:

RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: RAO: RESPONSE ACTION OUTCOME
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO
BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

TS DATE: 8/9/1996
AUL RESTRICTION:
LSP: WILLIAM SIMMONS
RA STATUS: COMPLETION STATEMENT RECEIVED
RAS TYPE: PHASE: PHASE I
RAO CLASS:

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 67	DIST/DIR: 0.30 NW	MAP ID: 54
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NAME: SADDLE TANK
ADDRESS: GALLIVAN BLVD & ADAMS ST
BOSTON MA

REV:
ID1: N92-1177
ID2: 0000
STATUS:
PHONE:

CONTACT: SAYERS, S

CASE CLOSED? YES
SPILL DATE: 19920915
DATE REPORTED: 19920915
SPILL NOTIFIER: NOSEWORTHY/FD

SPILL TIME: 06:15AM
REPORT TIME: 06:45AM
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: RUPTURE
MATERIAL SPILLED: DIESEL FUEL
AMT RPTD SPILLED: 101-250 GALLONS
SOURCE OF SPILL: VEH. FUEL TANK
PET/HAZ: PETROLEUM
PCB LEVEL: -----

ACTUAL AMT SPILLED: 101-250 GALLONS
VIR/WASTE: VIRGIN

ENVIRONMENTAL IMPACT:

LUST?: NO
CONTRACTOR: NOT USED
DAYS/CLOSE: 0

SOIL CONTAMINATED?:
PREPARE REPORT:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 68

DIST/DIR: 0.11 NE

MAP ID: 55

NAME: SCHLAGERS AUTO BODY
ADDRESS: 62R HILLTOP ST
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0018516
ID2:
STATUS: DPS
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: 120 DY **21E STATUS:** DPS
DATE: 6/28/99 **21E DATE:** 7/15/99
PHASE: PHASE II **HAZMAT TYPE:** OIL AND HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

PHENANTHRENE 120 UG/L
UNKNOWN CHEMICAL OF UNKNOWN TYPE 5.8 MG/KG

SITE ACTIONS

ACT DATE: 07/15/1999
ACT USE LIMITATION:
LSP: M SIDDIQUE
ACT STATUS: TRANSMITTAL RECEIVED
ACT TYPE: DPS: DOWNGRADIENT PROPERTY STATUS
RAO TYPE:

ACT DATE: 07/15/1999
ACT USE LIMITATION:
LSP: M SIDDIQUE
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

ACT DATE: 07/15/1999
ACT USE LIMITATION:
LSP: M SIDDIQUE
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASEI: PHASE I
RAO TYPE:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 69 **DIST/DIR:** 0.49 NE **MAP ID:** 5

NAME: SENTRY SOUTH LINCOLN MERCURY
ADDRESS: 40 HALLET ST
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0015629
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI:
DELETED:

CONFIRMED:
REMOVED:

CATEGORY: 120 DY
DATE: 10/14/97
PHASE: PHASE II

21E STATUS: TIER 2
21E DATE: 10/15/98
HAZMAT TYPE: HAZARDOUS MATERIAL

RAO CLASS:

LOCATION TYPE:
SOURCE:
SITE DESCRIPTION:

CHEMICALS

UNKNOWN CHEMICAL OF UNKNOWN TYPE 4 MG/KG
UNKNOWN CHEMICAL OF UNKNOWN TYPE 4 MG/KG
INDENO(1,2,3-CD)PYRENE 2 MG/KG
LEAD 1200 MG/KG
UNKNOWN CHEMICAL OF UNKNOWN TYPE 4 MG/KG

SITE ACTIONS

TS DATE: 10/15/1998
AUL RESTRICTION:
LSP: THOMAS JORDAN
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 10/15/1998
AUL RESTRICTION:
LSP:
RA STATUS: RELATED TO A TRANSITION SITE (NOT TIER CLASSIFIED)
RAS TYPE: FEND
RAO CLASS:

ACT DATE: 10/15/1998
ACT USE LIMITATION:
LSP: THOMAS JORDAN
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: PHASE I: PHASE I

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 69

DIST/DIR: 0.49 NE

MAP ID: 5

NAME: SENTRY SOUTH LINCOLN MERCURY
ADDRESS: 40 HALLET ST
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0015629
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

RAO TYPE:

ACT DATE: 06/04/2001
ACT USE LIMITATION:
LSP: PAUL STEINBERG
ACT STATUS: SCOPE OF WORK RECEIVED
ACT TYPE: PHASII: PHASE II
RAO TYPE:

ACT DATE: 10/16/2000
ACT USE LIMITATION:
LSP: PAUL STEINBERG
ACT STATUS: NDMDRC
ACT TYPE: PHSIII: PHASE III
RAO TYPE:

ACT DATE: 08/16/2000
ACT USE LIMITATION:
LSP: PAUL STEINBERG
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO TYPE:

ACT DATE: 10/15/1998
ACT USE LIMITATION:
LSP: THOMAS JORDAN
ACT STATUS: TIER 2 CLASSIFICATION
ACT TYPE: TCLASS: TIER CLASSIFICATION
RAO TYPE:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 70 **DIST/DIR:** 0.35 NW **MAP ID:** 1

NAME: SHELL OIL ADDRESS: 761 ADAMS BOSTON MA SUFFOLK CONTACT: STUGER, B	REV: ID1: N90-1650 ID2: 3-3328 STATUS: PHONE:
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CASE CLOSED? YES	SPILL TIME:	
SPILL DATE: 19901004	REPORT TIME:	08:45AM
DATE REPORTED: 19901005	NOTIFIER PHONE:	
SPILL NOTIFIER: BOB BRACKETT, GTI		

SPILL DESCRIPTION:

INCIDENT:	OTHER RELEASE > MONITORING WELL		
MATERIAL SPILLED:	GASOLINE		
AMT RPTD SPILLED:	UNKNOWN GALLONS	ACTUAL AMT SPILLED:	UNKNOWN GALLONS
SOURCE OF SPILL:	U.S.T.		
PET/HAZ:	PETROLEUM	VIR/WASTE:	-----
PCB LEVEL:	UNKNOWN		

ENVIRONMENTAL IMPACT: SOIL

LUST?: --	SOIL CONTAMINATED?:	
CONTRACTOR: NOT USED	PREPARE REPORT:	
DAYS/CLOSE: 0		

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 71

DIST/DIR: 0.35 NW

MAP ID: 1

NAME: SHELL STATION
ADDRESS: 761 ADAMS ST
BOSTON MA
SUFFOLK
CONTACT: MACAFEE, K

REV:
ID1: N91-0335
ID2: 3-3328
STATUS:
PHONE:

CASE CLOSED? YES
SPILL DATE: 19910311
DATE REPORTED: 19910312
SPILL NOTIFIER: TOM CARR/SHELL OIL

SPILL TIME:
REPORT TIME: 11:35AM
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: LEAK
MATERIAL SPILLED: #2 FUEL OIL
AMT RPTD SPILLED: UNKNOWN -----
SOURCE OF SPILL: U.S.T.
PET/HAZ: PETROLEUM
PCB LEVEL: -----

ACTUAL AMT SPILLED: -----
VIR/WASTE: VIRGIN

ENVIRONMENTAL IMPACT: -----

LUST?: NO
CONTRACTOR: NOT USED
DAYS/CLOSE: 0

SOIL CONTAMINATED?:
PREPARE REPORT:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 72

DIST/DIR: 0.34 NW

MAP ID: 56

NAME: SHELL STATION
ADDRESS: 761 ADAMS ST DOR
BOSTON-BOSTON MA

REV: 8/1/01
ID1: 3-0003328
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 10/15/90
DELETED:

CONFIRMED: 4/15/92
REMOVED:

CATEGORY:
DATE: 10/15/90
PHASE: PHASE II

21E STATUS: TIER 2
21E DATE: 10/1/98
HAZMAT TYPE: OIL

RAO CLASS:

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION:

GROUNDWATER RELEASE:

RELEASE TO SOIL; GASOLINE PRESENT; GAS STATION; CONTAINED IN A LUST;

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

CHEMICALS

SITE ACTIONS

TS DATE: 10/1/1998
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: TIER2TRANS
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: TRANSMITTAL RECEIVED
RAS TYPE: LSP-FA
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: COMPLETION STATEMENT RECEIVED

- Continued on next page -

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 72

DIST/DIR: 0.34 NW

MAP ID: 56

NAME: SHELL STATION
ADDRESS: 761 ADAMS ST DOR
BOSTON-BOSTON MA

REV: 8/1/01
ID1: 3-0003328
ID2:
STATUS: TIER 2
PHONE:

CONTACT:

RAS TYPE: PHASEI: PHASE I
RAO CLASS:

TS DATE: 8/8/1997
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS:
RAS TYPE: TCLASS: TIER CLASSIFICATION
RAO CLASS:

TS DATE: 2/1/2001
AUL RESTRICTION:
LSP: THOMAS WILLIAMSON
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 73

DIST/DIR: 0.50 NE

MAP ID: 57

NAME: SUNOCO STATION
ADDRESS: 710 GALLIVAN BLVD DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0001370
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

LTBI: 1/15/92
DELETED:

CONFIRMED: 10/15/92
REMOVED:

CATEGORY:
DATE: 1/15/92
PHASE: PHASE II

21E STATUS: RAO
21E DATE: 8/18/97
HAZMAT TYPE: OIL

RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

LOCATION TYPE:

SOURCE:

SITE DESCRIPTION: GROUNDWATER RELEASE: CONTAINED IN A LUST; GASOLINE PRESENT; GAS STATION;
RELEASE TO SOIL:

OTHER CONTAMINATION:

OTHER RELEASES:

OTHER PROBLEMS:

OTHER TYPE OF SITE:

CHEMICALS

SITE ACTIONS

TS DATE: 6/10/1997
AUL RESTRICTION:
LSP: MICHAEL BINGHAM
RA STATUS:
RAS TYPE: TIER2EXT
RAO CLASS:

TS DATE: 8/18/1997
AUL RESTRICTION: NOT
LSP: MICHAEL BINGHAM
RA STATUS: RAO STATEMENT RECEIVED
RAS TYPE: RAO: RESPONSE ACTION OUTCOME
RAO CLASS: A3 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS NOT BEEN REDUCED TO BACKGROUND AND AN ACTIVITY AND USE LIMITATION (AUL) HAS BEEN IMPLEMENTED

TS DATE: 1/22/1997
AUL RESTRICTION:

- Continued on next page -

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 73

DIST/DIR: 0.50 NE

MAP ID: 57

NAME: SUNOCO STATION
ADDRESS: 710 GALLIVAN BLVD DOR
BOSTON-DORCHESTER MA

REV: 8/1/01
ID1: 3-0001370
ID2:
STATUS: RAO
PHONE:

CONTACT:

LSP: MICHAEL BINGHAM
RA STATUS: WRITTEN PLAN RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

TS DATE: 5/19/1997

AUL RESTRICTION:

LSP: MICHAEL BINGHAM
RA STATUS: STATUS REPORT RECEIVED
RAS TYPE: RAM: RELEASE ABATEMENT MEASURE
RAO CLASS:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 74

DIST/DIR: 0.08 SE

MAP ID: 25

NAME: T EQUIPMENT CORPORATION
ADDRESS: 170 GRANITE AVE
BOSTON-DORCHESTER MA 02124

REV: 8/1/01
ID1: 3-0015333
ID2:
STATUS: RAO
PHONE:

CONTACT:

SITE INFORMATION

CATEGORY: TWO HR
DATE: 7/25/97
PHASE: NO PHASE

21E STATUS: RAO
21E DATE: 9/23/97
HAZMAT TYPE: OIL

RAO CLASS: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO
BACKGROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

LOCATION TYPE: INDUSTRIAL, COMMERCIAL,
SOURCE: DRUMS;
SITE DESCRIPTION:

CHEMICALS

UNKNOWN CHEMICAL OF TYPE - OIL 40 LBS
UNKNOWN CHEMICAL OF UNKNOWN TYPE 5 GAL

SITE ACTIONS

ACT DATE: 09/23/1997
ACT USE LIMITATION: NONE
LSP: RICHARD CUSHING
ACT STATUS: RAO STATEMENT RECEIVED
ACT TYPE: RAO: RESPONSE ACTION OUTCOME
RAO TYPE: A1 - A PERMANENT SOLUTION HAS BEEN ACHIEVED: CONTAMINATION HAS BEEN REDUCED TO
BACKGROUND OR A THREAT OF A RELEASE HAS BEEN ELIMINATED

ACT DATE: 09/23/1997
ACT USE LIMITATION:
LSP: RICHARD CUSHING
ACT STATUS: COMPLETION STATEMENT RECEIVED
ACT TYPE: IRA: IMMEDIATE RESPONSE ACTION
RAO TYPE:

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 75

DIST/DIR: 0.00 --

MAP ID: 58

NAME: UST REMOVAL
ADDRESS: 140 GRANITE AVE
BOSTON MA
SUFFOLK
CONTACT: NDI, K

REV:
IDI: N93-1033
ID2: 0000
STATUS:
PHONE:

CASE CLOSED? YES
SPILL DATE: 19930802
DATE REPORTED: 19930802
SPILL NOTIFIER: MIKE HARRINGTON/WTE CORP

SPILL TIME:
REPORT TIME:
NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT: TANK REMOVAL
MATERIAL SPILLED: GASOLINE
AMT RPTD SPILLED: -----
SOURCE OF SPILL: U.S.T.
PET/HAZ: PETROLEUM
PCB LEVEL: NONE

ACTUAL AMT SPILLED: UNKNOWN -----
VIR/WASTE: VIRGIN

ENVIRONMENTAL IMPACT:

LUST?: ---
CONTRACTOR: OTHER - UNSPECIFIED
DAYS/CLOSE: 0

SOIL CONTAMINATED?:
PREPARE REPORT:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 76

DIST/DIR: 0.35 NW

MAP ID: 1

NAME: VEHICLE FUEL TANK
ADDRESS: ADAMS/MINOT
BOSTON MA

REV:
ID1: N91-0208
ID2: 0000
STATUS:
PHONE:

CONTACT: ARMSTRONG, V

CASE CLOSED? YES

SPILL DATE:

DATE REPORTED: 19910214

SPILL NOTIFIER: DISP #9/BOSTON FD

SPILL TIME:

REPORT TIME: 11:00AM

NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT:

MATERIAL SPILLED: -----
GASOLINE

AMT RPTD SPILLED: 11-50 GALLONS

SOURCE OF SPILL: VEH. FUEL TANK

PET/HAZ: PETROLEUM

PCB LEVEL: NONE

ACTUAL AMT SPILLED: ----- GALLONS

VIR/WASTE: VIRGIN

ENVIRONMENTAL IMPACT:

LUST?: NO

CONTRACTOR: NOT USED

DAYS/CLOSE: 1

SOIL CONTAMINATED?:

PREPARE REPORT:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 77

DIST/DIR: 0.35 NW

MAP ID: 1

NAME:

ADDRESS: 761 ADAMS ST
BOSTON MA
SUFFOLK

CONTACT: OTTENHEIMER, D

REV:

ID1: N90-0943
ID2: 3-3328

STATUS:
PHONE:

CASE CLOSED?

YES

SPILL DATE:

19900612

DATE REPORTED:

19900612

SPILL NOTIFIER:

TOM CARR SHELL OIL

SPILL TIME:

REPORT TIME:

04:15PM

NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT:

TANK REMOVAL

MATERIAL SPILLED:

OTHER MATERIAL -->

AMT RPTD SPILLED:

UNKNOWN GALLONS

ACTUAL AMT SPILLED:

UNKNOWN GALLONS

SOURCE OF SPILL:

U.S.T.

PET/HAZ:

PETROLEUM

VIR/WASTE:

VIRGIN

PCB LEVEL:

NONE

ENVIRONMENTAL IMPACT: SOIL

LUST?:

NO

CONTRACTOR:

NOT USED

SOIL CONTAMINATED?:

DAYS/CLOSE:

0

PREPARE REPORT:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 78

DIST/DIR: 0.48 NE

MAP ID: 59

NAME:

ADDRESS: 49 FRANCONIA ST
BOSTON MA
SUFFOLK

CONTACT: FONKEM, V

REV:

ID1: N90-1437
ID2: 0000

STATUS:

PHONE:

CASE CLOSED?

YES

SPILL DATE:

19900829

DATE REPORTED:

19900829

SPILL NOTIFIER:

J THOMPSON/AQTLAS OIL

SPILL TIME:

REPORT TIME:

11:15AM

NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT:

LEAK

MATERIAL SPILLED:

#2 FUEL OIL

AMT RPTD SPILLED:

10-50 GALLONS

ACTUAL AMT SPILLED:

1-10 GALLONS

SOURCE OF SPILL:

ABOVE-GRND TANK

PET/HAZ:

PETROLEUM

VIR/WASTE:

VIRGIN

PCB LEVEL:

NONE

ENVIRONMENTAL IMPACT: SOIL

LUST?:

NO

CONTRACTOR:

NOT USED

SOIL CONTAMINATED?:

PREPARE REPORT:

DAYS/CLOSE:

1

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE

SEARCH ID: 79

DIST/DIR: 0.26 NW

MAP ID: 4

NAME:

ADDRESS: 10 GRANITE AVE
BOSTON MA
SUFFOLK

CONTACT: BOYLE, T

REV:

ID1: N90-0665
ID2: 0000

STATUS:

PHONE:

CASE CLOSED?

YES

SPILL DATE:

19900502

DATE REPORTED:

19900502

SPILL NOTIFIER:

JUNE LUCIA

SPILL TIME:

REPORT TIME:

11:45AM

NOTIFIER PHONE:

SPILL DESCRIPTION:

INCIDENT:

OTHER RELEASE > TANK TEST FAIL

MATERIAL SPILLED:

GASOLINE

AMT RPTD SPILLED:

UNKNOWN GALLONS

ACTUAL AMT SPILLED:

UNKNOWN GALLONS

SOURCE OF SPILL:

U.S.T.

PET/HAZ:

PETROLEUM

VIR/WASTE:

VIRGIN

PCB LEVEL:

NONE

ENVIRONMENTAL IMPACT: -----

LUST?:

NO

CONTRACTOR:

NOT USED

SOIL CONTAMINATED?:

DAYS/CLOSE:

0

PREPARE REPORT:

Environmental FirstSearch Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

STATE SPILLS SITE																																																							
SEARCH ID: 98	DIST/DIR: NON GC	MAP ID:																																																					
NAME: MARTIN PLAYGROUND ADDRESS: HILLTOP ST BOSTON MA SUFFOLK CONTACT: GORRASI, M	REV: ID1: N91-1277 ID2: 0000 STATUS: PHONE:																																																						
<table style="width:100%;"> <tr> <td style="width: 30%;">CASE CLOSED?</td> <td>YES</td> <td style="width: 30%;">SPILL TIME:</td> <td></td> </tr> <tr> <td>SPILL DATE:</td> <td>19910911</td> <td>REPORT TIME:</td> <td>05:55PM</td> </tr> <tr> <td>DATE REPORTED:</td> <td>19910912</td> <td>NOTIFIER PHONE:</td> <td></td> </tr> <tr> <td>SPILL NOTIFIER:</td> <td>ROBERT WALSH/BOSTON P & R</td> <td></td> <td></td> </tr> </table> <p>SPILL DESCRIPTION:</p> <table style="width:100%;"> <tr> <td style="width: 30%;">INCIDENT:</td> <td>DUMPING</td> <td style="width: 30%;">ACTUAL AMT SPILLED:</td> <td>51-100 -----</td> </tr> <tr> <td>MATERIAL SPILLED:</td> <td>BATTERIES/BATTERY ACID</td> <td></td> <td></td> </tr> <tr> <td>AMT RPTD SPILLED:</td> <td>51-100 -----</td> <td></td> <td></td> </tr> <tr> <td>SOURCE OF SPILL:</td> <td>OTHER SOURCE > BATTERIES</td> <td></td> <td></td> </tr> <tr> <td>PET/HAZ:</td> <td>HAZARDOUS</td> <td>VIR/WASTE:</td> <td>WASTE</td> </tr> <tr> <td>PCB LEVEL:</td> <td>-----</td> <td></td> <td></td> </tr> </table> <p>ENVIRONMENTAL IMPACT:</p> <table style="width:100%;"> <tr> <td style="width: 30%;">LUST7:</td> <td>NO</td> <td style="width: 30%;">SOIL CONTAMINATED?:</td> <td></td> </tr> <tr> <td>CONTRACTOR:</td> <td>NOT USED</td> <td>PREPARE REPORT:</td> <td></td> </tr> <tr> <td>DAYS/CLOSE:</td> <td>18</td> <td></td> <td></td> </tr> </table>				CASE CLOSED?	YES	SPILL TIME:		SPILL DATE:	19910911	REPORT TIME:	05:55PM	DATE REPORTED:	19910912	NOTIFIER PHONE:		SPILL NOTIFIER:	ROBERT WALSH/BOSTON P & R			INCIDENT:	DUMPING	ACTUAL AMT SPILLED:	51-100 -----	MATERIAL SPILLED:	BATTERIES/BATTERY ACID			AMT RPTD SPILLED:	51-100 -----			SOURCE OF SPILL:	OTHER SOURCE > BATTERIES			PET/HAZ:	HAZARDOUS	VIR/WASTE:	WASTE	PCB LEVEL:	-----			LUST7:	NO	SOIL CONTAMINATED?:		CONTRACTOR:	NOT USED	PREPARE REPORT:		DAYS/CLOSE:	18		
CASE CLOSED?	YES	SPILL TIME:																																																					
SPILL DATE:	19910911	REPORT TIME:	05:55PM																																																				
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CONTRACTOR:	NOT USED	PREPARE REPORT:																																																					
DAYS/CLOSE:	18																																																						

To	From	Date	# of pages	Fax #	Phone #
3114N	8117	11-9	1		
Co/Dept	Co/Dept				
CDW	CDW				

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 80

DIST/DIR: 0.08 SE

MAP ID: 25

NAME: T EQUIPMENT CORP
ADDRESS: 170 GRANITE AVE
DORCHESTER MA 02124

REV: 10/18/01
ID1: 0-014735
ID2: 25035

CONTACT:

STATUS:
PHONE:

TOTAL NUMBER OF TANKS: 5

OWNER INFORMATION

OWNER NAME: T EQUIPMENT CORP
OWNER ADDRESS: 170 GRANITE AVE
DORCHESTER MA 02124

FACILITY TYPE: Other
WORK PHONE: (617) 282-7610

INFORMATION

TANK NUMBER: 1
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 10000
CONTENTS: DIESEL
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 2
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 5000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 3
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 80

DIST/DIR: 0.08 SE

MAP ID: 25

NAME: T EQUIPMENT CORP
ADDRESS: 170 GRANITE AVE
DORCHESTER MA 02124

REV: 10/18/01
ID1: 0-014735
ID2: 25035
STATUS:
PHONE:

CONTACT:

CAPACITY(GAL): 5000
CONTENTS: GASOLINE
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 4
TANK STATUS: IN USE
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 275
CONTENTS: WASTE OIL
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL: STEEL
PIPE TYPE:
LEAK DETECTION:

TANK NUMBER: 5
TANK STATUS: REMOVED
SERIAL NUMBER:
ABOVE GROUND: N
CAPACITY(GAL): 1000
CONTENTS:
USE:
TANK MATERIAL: STEEL
TANK TYPE:
LEAK DETECTION:

PIPE MATERIAL:
PIPE TYPE:
LEAK DETECTION:



Environmental FirstSearch

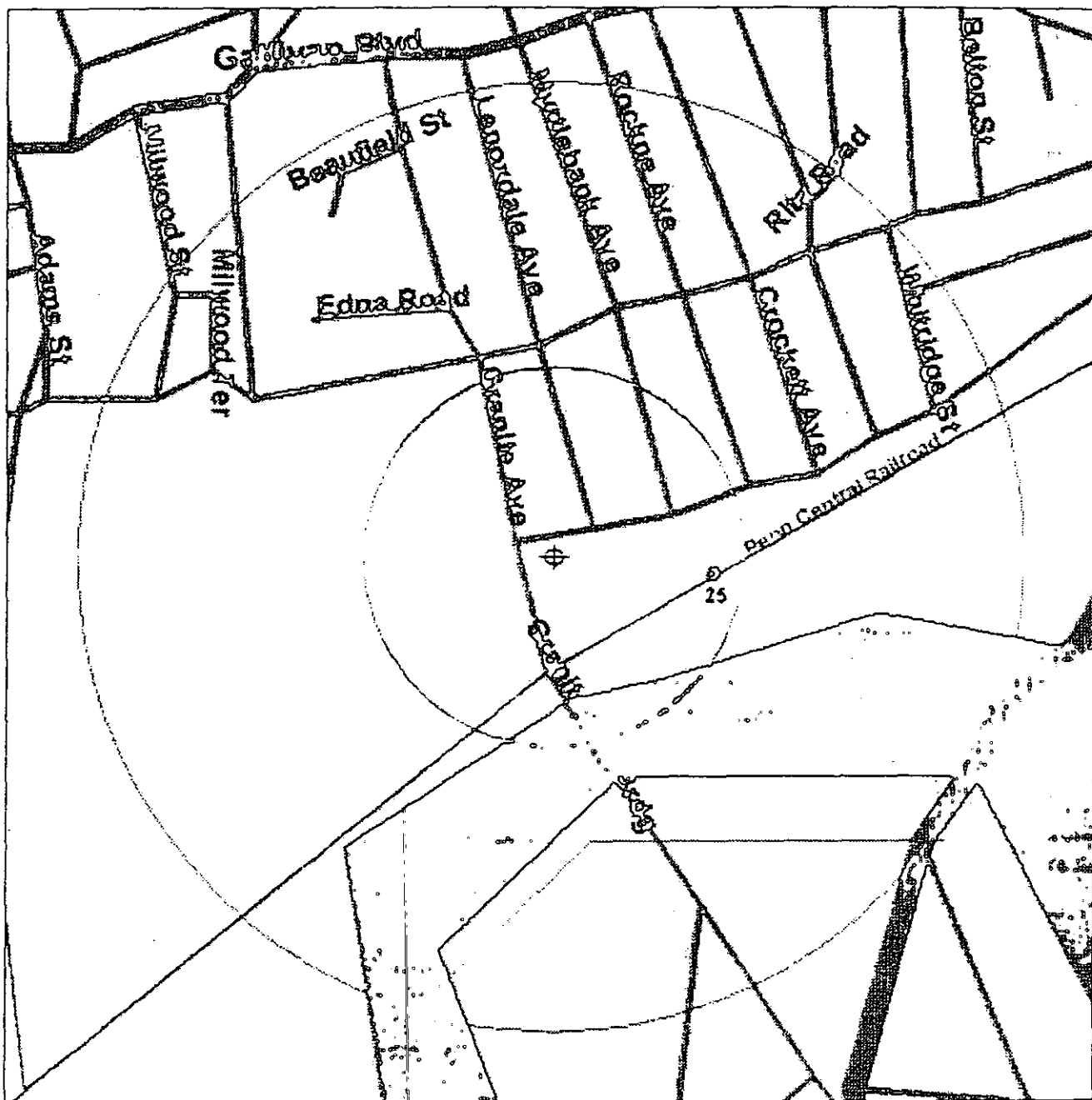
.25 Mile Radius

ASTM Map: RCRAGEN, ERNS, UST

Environmental
FIRSTSEARCH



140 GRANITE AVE, BOSTON MA 02124



Source: 1999 U.S. Census TIGER Files

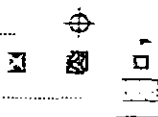
Target Site (Latitude: 42.278793 Longitude: -71.053557)

Identified Site, Multiple Sites, Receptor

NPL, Solid Waste Landfill (SWL) or Hazardous Waste

Railroads

Black Rings Represent 1/4 Mile Radius Red Ring Represents 1/2 Mile Radius





Environmental FirstSearch

.5 Mile Radius

ASTM Map: CERCLIS, RCRATSD, SPILLS90, SWL



140 GRANITE AVE, BOSTON MA 02124



Source: 1999 U.S. Census TIGER Files

Target Site (Latitude: 42.278793 Longitude: -71.053557)

Identified Site, Multiple Sites, Receptor

NPL, Solid Waste Landfill (SWL) or Hazardous Waste

Railroads

Black Rings Represent 1/4 Mile Radius; Red Ring Represents 500 ft. Radius





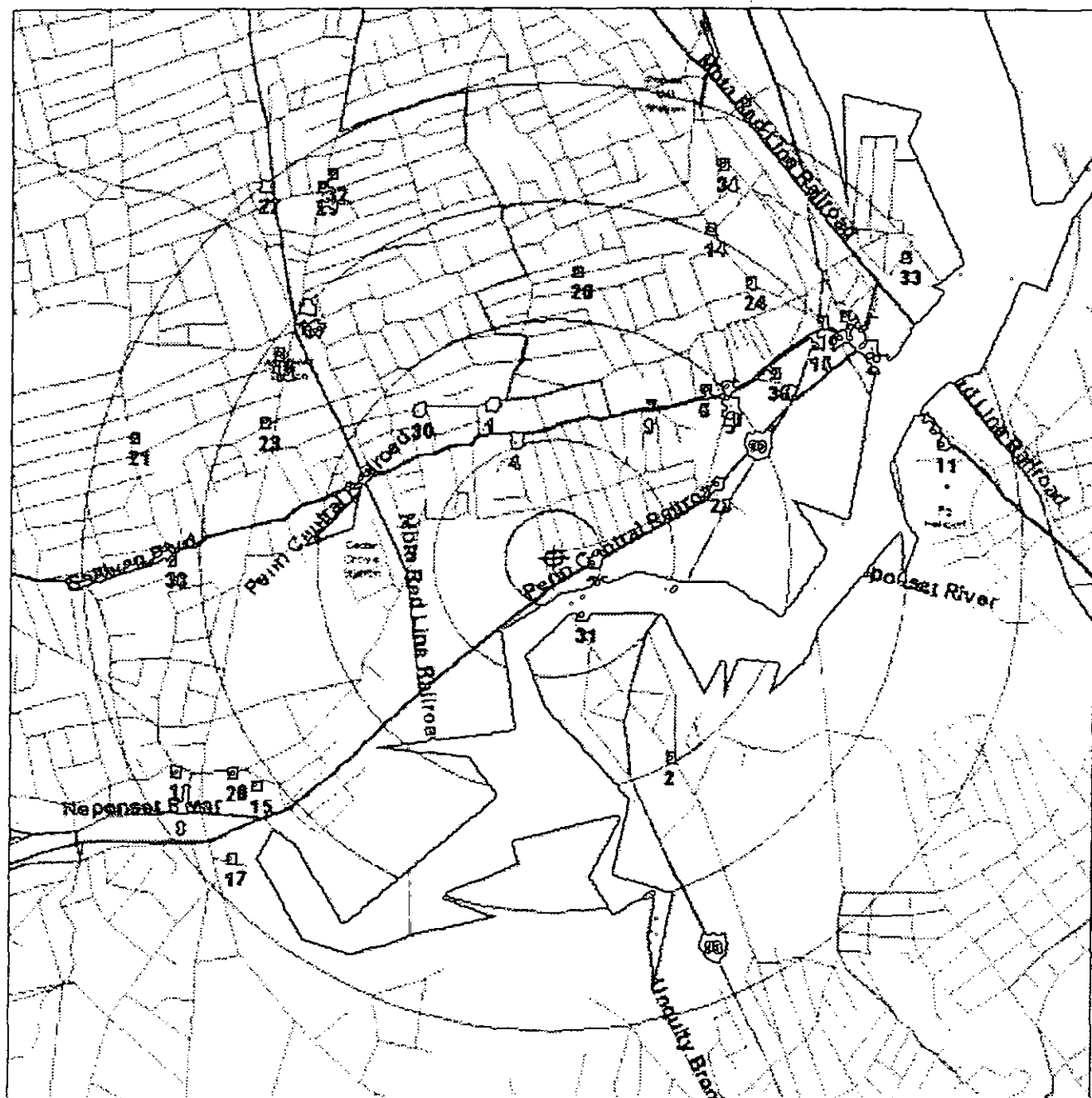
Environmental FirstSearch

1 Mile Radius

ASTM Map: NPL, RCRACOR, STATE Sites



140 GRANITE AVE, BOSTON MA 02124



Source: 1999 U.S. Census TIGER Files

Target Site (Latitude: 42.278793 Longitude: -71.053557)

Identified Site, Multiple Sites, Receptor

NPL, Solid Waste Landfill (SWL) or Hazardous Waste

Railroads

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius



Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

TARGET SITE: 140 GRANITE AVE
BOSTON MA 02124

JOB: 900

Street Name	Dist/Dir	Street Name	Dist/Dir
Beaufield St	0.21 NW		
Cedar Grove St	0.23 NE		
Crockett Ave	0.15 NE		
Edna Rd	0.15 NW		
Granite Ave	0.01 SW		
Granite Ave Brg	0.08 SE		
Granville St	0.17 NW		
Hill Top St	0.01 SE		
I-93	0.25 SE		
Lenoxdale Ave	0.03 NE		
Milton St	0.12 NW		
Milwood St	0.21 NW		
Milwood Ter	0.19 NW		
Myrtlebank Ave	0.07 NE		
Rita Rd	0.22 NE		
Rockne Ave	0.11 NE		
St Brendan Rd	0.18 NE		
Whitridge St	0.22 NE		

APPENDIX E

FIRE DEPARTMENT/UST RECORDS

CDW CONSULTANTS, INC.

*** Is this the correct record ?? ***

ABATEMENT: 70068
OWNER: MIKE HARRINGTON
LOCATION: 140 GRANITE AV

OCCUPANCY: 0

DATE ISSUED: 08/24/93 CORRECTED: 09/30/93

COURT ACTION: F

PRESS X FOR CORRECT RECORD, C FOR NEXT RECORD, U FOR PREVIOUS RECORD

VIOLATION LOCATION: 140 GRANITE AV GRANITE:

DATE: 70068 ISSUED: 08/24/93 CORRECTED: 09/30/93 U-ITS: 0

TYPE: INSPECTION COMPANY: FP GR: D
LOCATION: 140 GRANITE AV

ISSUED TO: MIKE HARRINGTON
ADDRESS: 140 GRANITE AV

PHONE: 70068
FAX: 70068

DATE: 7 COURT: NO

CORRECTED IN DATE: 09/30/93 BY: INSPECTOR: DON WILSON

INSPECTION NUMBER	DATE	TYPE	RESULT
07/15/93	07/15/93	INSPECTION	CONTINUE
07/15/93	07/15/93	INSPECTION	CONTINUE
07/15/93	07/15/93	INSPECTION	DISMISSED
07/15/93	07/15/93	INSPECTION	DISMISSED

press any key to continue

ONE 527 SEC 7 INSTALLATION, REMOVAL, ABANDONMENT OF TANK(S)
REMOVE ABANDONED UNDEGRADED TANKS.

Notification for Underground Storage Tanks



2

Submit to:
LOCAL FIRE DEPARTMENT

FIRE DEPT.

25035

STATE USE ONLY

FIRE DEPT. CERTIFICATION

1986

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act, (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;

4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;

5. surface impoundments, pits, ponds, or lagoons;

6. storm water or waste water collection systems;

7. flow-through process tanks;

8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;

9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached

OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

J. Sax Company

Street Address

140 Granite Avenue

County

Suffolk

City

Boston,

State

MA

ZIP Code

02124

Area Code

Phone Number

617

825 - 1110

Type of Owner (Mark all that apply ☒)

☒ Current

☐ State or Local Gov't

☐ Private or Corporate

☐ Former

☐ Federal Gov't (GSA facility I.D. no. _____)

☐ Ownership uncertain

LOCATION OF TANK(S)

(If same as Section 1, mark box here ☒)

Facility Name or Company Site Identifier, as applicable

Street Address or State Road, as applicable

County

City (nearest)

State

ZIP Code

Indicate number of tanks at this location

2

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐

CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☒)

Job Title

Area Code

Phone Number

TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

CERTIFICATION (Read and sign after completing Section VI)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative

John Sax - President

Signature

John Sax (L.S.)

Date Signed

April 29 1986

CONTINUE ON REVERSE SIDE

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. 1	Tank No. 2	Tank No.	Tank No.	Tank No.
1. Status of Tank (Mark all that apply <input checked="" type="checkbox"/>) Currently in Use <input checked="" type="checkbox"/> Temporarily Out of Use <input type="checkbox"/> Permanently Out of Use <input type="checkbox"/> Brought into Use after 5/8/86 <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Estimated Age (Years)					
3. Estimated Total Capacity (Gallons)	2,000	1,000			
4. Material of Construction (Mark one <input checked="" type="checkbox"/>) Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Fiberglass Reinforced Plastic <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Other, Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
5. Internal Protection (Mark all that apply <input checked="" type="checkbox"/>) Cathodic Protection <input type="checkbox"/> Inter-lining (e.g., epoxy resins) <input type="checkbox"/> None <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Other, Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
6. External Protection (Mark all that apply <input checked="" type="checkbox"/>) Cathodic Protection <input type="checkbox"/> Painted (e.g., asphaltic) <input type="checkbox"/> Fiberglass Reinforced Plastic Coated <input type="checkbox"/> None <input type="checkbox"/> Unknown <input checked="" type="checkbox"/> Other, Please Specify _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
7. Piping (Mark all that apply <input checked="" type="checkbox"/>) Bare Steel <input type="checkbox"/> Galvanized Steel <input checked="" type="checkbox"/> Fiberglass Reinforced Plastic <input type="checkbox"/> Cathodically Protected <input type="checkbox"/> Unknown <input type="checkbox"/> Other, Please Specify _____	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply <input checked="" type="checkbox"/>) a. Empty <input type="checkbox"/> b. Petroleum <input checked="" type="checkbox"/> Diesel <input checked="" type="checkbox"/> Kerosene <input type="checkbox"/> Gasoline (including alcohol blends) <input checked="" type="checkbox"/> Used Oil <input type="checkbox"/> Other, Please Specify _____ c. Hazardous Substance <input type="checkbox"/> Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No. Mark box <input checked="" type="checkbox"/> if tank stores a mixture of substances <input type="checkbox"/> d. Unknown <input type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
9. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo/yr) _____ b. Estimated quantity of substance remaining (gal.) _____ c. Mark box <input type="checkbox"/> if tank was filled with inert material (e.g., sand, concrete) <input type="checkbox"/>	/	/	/	/	/

3



The Commonwealth of Massachusetts
Department of Public Safety
Division of Fire Prevention and Regulation

APPLICATION FOR PERMIT TO MAINTAIN AN EXISTING/NEW UNDERGROUND
STORAGE FACILITY

TO: Head of Fire Department

BOSTON, MA

City, Town or District

APRIL 15, 1991

Date

Application is hereby made for a permit to maintain an existing/new underground storage facility as required by 527 CMR 9.00: Permits.

Location of property: 140 GRANITE AVENUE

Street Address

Owner of property: J. SAX & COMPANY, INC.

Full name of person, firm or corporation

Signature of owner or authorized representative:

FEE: \$ 100.00

(ORDINANCES OF 1986 CHAPTER 14)

FORM F.P. 290
(rev. 10/90)

(Fire department's copy to be filed with F.P. 290 Part 2)

3



The Commonwealth of Massachusetts
Department of Public Safety
Division of Fire Prevention and Regulation

PERMIT

Date April 19, 1991

TO MAINTAIN AN EXISTING/NEW UNDERGROUND STORAGE FACILITY

In accordance with the provisions of 527 CMR 9.26 this permit to maintain an existing/new underground storage facility is granted to:

Location of property: 140 GRANITE AVENUE

Street address

Owner of property: J. SAX & COMPANY, INC.

Full name of person, firm or corporation

Restrictions:

FACILITY TO BE MAINTAINED IN ACCORDANCE WITH 527 CMR 9.26

Fee Paid: \$ 100.00

(ORDINANCES OF 1986 CHAPTER 14)

This permit will expire APRIL 16, 1996

Date

Signature of Head of Fire Dept. or appointed designee

FORM F.P. 290
(rev. 10/90)

(Owner's copy to be posted at the storage facility)

J SAX COMPANY
140 GRANITE AV
BOSTON MA 02124
LOCATION: 140 GRANITE AV

J SAX COMPANY
140 GRANITE AV
BOSTON MA 02124
LOCATION: 140 GRANITE AV

NAME AND ADDRESS

OF

JOHN C. TOMBARELLO & SONS

APPROVED TANK YARD

207 MARSTON ST.

APPROVED TANK YARD NO.

LAWRENCE, MASS. 01841

Tank Yard Ledger 502 CMR 3.03(4) Number:

4301708

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by firm, corporation or partnership

and accepted same in conformance with Massachusetts Fire Prevention

Regulation 502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank dismantling yards.

A valid permit was issued by LOCAL Head of Fire Department FDID# 25035 to transport this tank to this yard.

Name and official title of approved tank yard owner or owners authorized representative:

SIGNATURE

TITLE

DATE SIGNED

This signed receipt of disposal must be returned to the local head of the fire department FDID# 25035 pursuant to 502 CMR 3:00. (EACH TANK MUST HAVE A RECEIPT OF DISPOSAL)

FORM F.P. 291 (rev. 9/88)

(OVER)

MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE



NAME AND ADDRESS

JOHN C. TOMBARELLO & SONS

OF

1 MARSTON ST.

APPROVED TANK YARD

LAWRENCE, MASS. 01841

APPROVED TANK YARD NO.

4 9 0 1

Tank Yard Ledger 502 CMR 3.03(4) Number:

93017-107

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by firm, corporation or partnership

and accepted same in conformance with Massachusetts Fire Prevention Regulation/502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank dismantling yards. A valid permit was issued by LOCAL Head of Fire Department FDID# 25035 to transport this tank to this yard.

Name and official title of approved tank yard owner or owners authorized representative:

James Martino

SIGNATURE

CFO

TITLE

5-4-95

DATE SIGNED

This signed receipt of disposal must be returned to the local head of the fire department FDID# 25035 pursuant to 502 CMR 3.00. (EACH TANK MUST HAVE A RECEIPT OF DISPOSAL)

FORM F.P. 291 (rev. 9/88)

(OVER)

MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE

3



The Commonwealth of Massachusetts
Department of Public Safety
Division of Fire Prevention and Regulation

APPLICATION FOR PERMIT TO MAINTAIN AN EXISTING/NEW UNDERGROUND
STORAGE FACILITY

TO: Head of Fire Department

BOSTON, MA

City, Town or District

APRIL 15, 1991
Date

Application is hereby made for a permit to maintain an existing/new underground storage facility as required by 527 CMR 9.00: Permits.

Location of property: 140 GRANITE AVENUE

GRANITE AV

DIMENSIONS

	Width		Length
Tank 1	14"	X	21"
Tank 2	----	X	----
Tank 3	----	X	----
Tank 4	----	X	----
Tank 5	----	X	----
	(feet)		(feet)

Tank Removed From

14-10 Granite Ave.
 (no. street)
 Boston
 (city or town)

Fire Department
 Permit #

2830
 (if applicable)

DIMENSIONS

	Width		Length
Tank 1	14"	X	12'8"
Tank 2	----	X	----
Tank 3	----	X	----
Tank 4	----	X	----
Tank 5	----	X	----
	(feet)		(feet)

Tank Removed From

14-10 Granite Ave.
 (no. street)
 Boston
 (city or town)

Fire Department
 Permit #

2830
 (if applicable)

DIMENSIONS

	Width		Length
Tank 1	44"	X	21'
Tank 2	-----	X	-----
Tank 3	-----	X	-----
Tank 4	-----	X	-----
Tank 5	-----	X	-----
	(feet)		(feet)

Tank Removed From

(no. street)

(city or town)

Fire Department
Permit #

(if applicable)

DIMENSIONS

	Width		Length
Tank 1	48"	X	12'
Tank 2	-----	X	-----
Tank 3	-----	X	-----
Tank 4	-----	X	-----
Tank 5	-----	X	-----
	(feet)		(feet)

Tank Removed From

(no. street)

(city or town)

Fire Department
Permit #

(if applicable)

MEMORANDUM

To: Dorchester Fire Emergency Response Site File

cc: Randy Rice, U.S. Environmental Protection Agency, On-Scene Coordinator
Desiree Moyer, U.S. Environmental Protection Agency, On-Scene Coordinator

From: Jessica Cajigas, Roy F. Weston, Inc., Superfund Technical Assessment and Response Team

Date: 29 November 2000

Subj: Site Activities Conducted on 2 November 2000
TDD No. 00-11-0006, PCS No. 1501, Document Control No. R-1154

The Dorchester Fire Site (the site) is located at 140 Granite Avenue, Dorchester, Suffolk County, Massachusetts [see Attachment A - Site Location Map (Figure 1)]. The approximate geographic coordinates for the site are 42° 16' 44" north latitude and 71° 3' 13" west longitude. The site consists of an abandoned warehouse on an approximately 3-acre parcel of land and is bordered to the north by Hilltop Road, a park, and residential property; to the west by Granite Avenue and commercial property; to the south by commercial property and the Neponset River; and to the east by residential property [see Attachment B - Site Diagram (Figure 2)]. Past uses of the site were unknown during preparation of this memorandum, but it is suspected that a metal fabrication company and junkyard may have previously operated at the site.

On 2 November 2000, City of Boston firefighters responded to a fire that originated in the western portion of the warehouse. U.S. Environmental Protection Agency (EPA) On-Scene Coordinators (OSCs) Randy Rice and Desiree Moyer, and Massachusetts Department of Environmental Protection (MA DEP) officials responded to the site when they were informed of the presence of drums in and around the warehouse. Representatives of the Roy F. Weston, Inc., Superfund Technical Assessment and Response Team (START) were requested to support emergency response activities at the site.

At 1030 hours, OSCs Rice and Moyer and START members Eric Ackerman, Jessica Cajigas, Daniel Muzrall, and Jeffrey Van Egmond conducted perimeter walks of the property to assess the condition of the site, provide photodocumentation, and determine potential sample locations (see Attachment C - Photodocumentation Log). START members Paul Killian and Robert Shoemaker calibrated the gas chromatograph (GC) model 10S70 by Photovac to be used to field screen samples for volatile organic compounds (VOCs).

OSC Rice requested START collect two samples of the runoff water used to extinguish the fire and one air sample from an area downwind of the warehouse. The water samples were collected in 40-milliliter vials and the air sample was collected in a Tedlar bag using an SKC air monitoring pump. All samples were field screened using the GC (see Attachment D - Field Screening Analytical Results). OSCs Rice and Moyer and START member Killian informed Commissioner Kevin J. Joyce of the City of Boston Inspectional Services Department of the sample results.

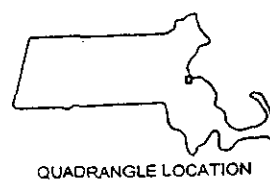
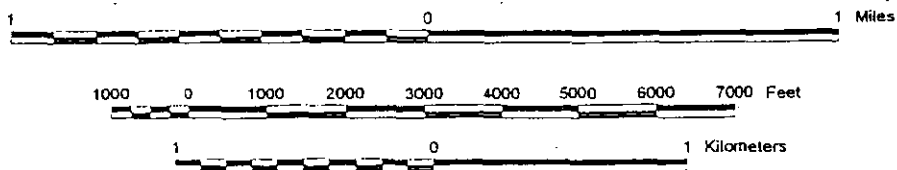
EPA and START personnel completed site activities and departed the site.

ATTACHMENT A

Site Location Map (Figure 1)



BASE MAP IS A PORTION OF THE FOLLOWING 7.5 X 15' U.S.G.S. QUADRANGLE(S):
 BOSTON-SOUTH, MASS. 1987



SITE LOCATION MAP

DORCHESTER FIRE SITE
 140 GRANITE AVENUE
 DORCHESTER, MASSACHUSETTS

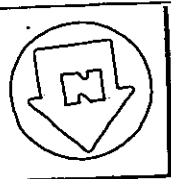


REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDO #	DRAWN BY:	DATE
00-11-0006	MUZBALL	11/3/2000
FILE NAME	FIGURE 1	
E:\ARC_APRS\START2\DORCHESTERFIRE.APR		

ATTACHMENT B

Site Diagram (Figure 2)



NEPONSET RIVER

GATE

HILLTOP ROAD

MYRTLEBANK

LENOXDALE

WAREHOUSE

△ FW-1

△ FW-2

LOADING DOCK

SCALE

BOOTH

△ A-1

GATE

SHED

GRANITE AVENUE

NOT TO SCALE

SITE DIAGRAM

DORCHESTER FIRE EMERGENCY RESPONSE
140 GRANITE AVENUE
DORCHESTER, MASSACHUSETTS

LEGEND

- DRUM LOCATION
- △ SAMPLE LOCATION
- FW-1 SAMPLE NAME
- FENCE
- CONCRETE WALL



REGION 1 SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
MANAGERS DESIGNERS/CONSULTANTS

TDD # 00-11-0006

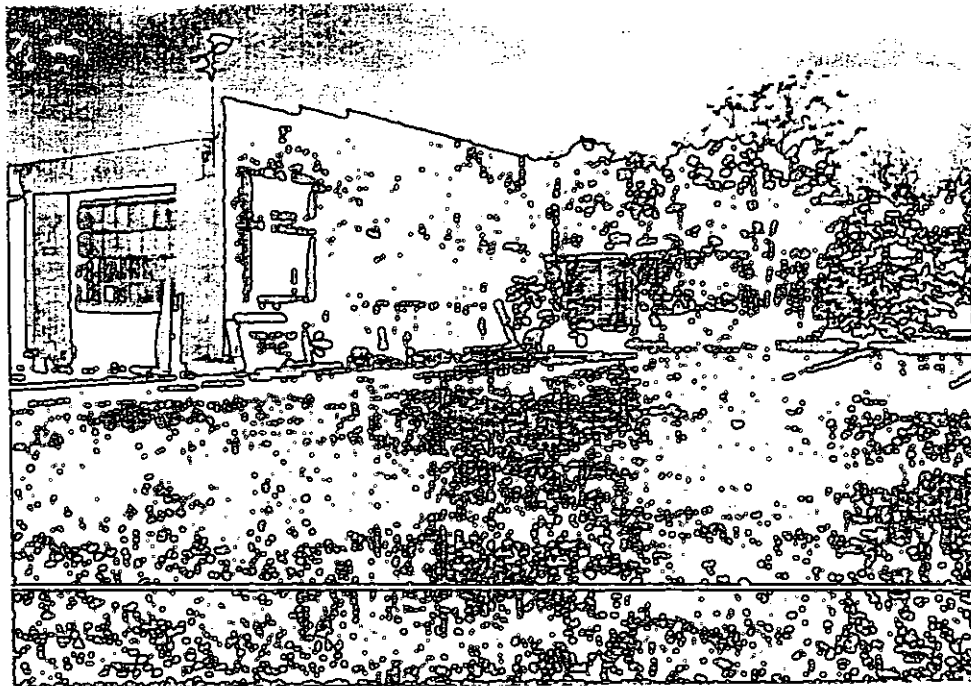
DRAWN BY J. CAJIGAS

DATE 11/3/00

FILE NAME R:\00110006\FIGURE2

FIGURE 2

PHOTOGRAPHY LOG SHEET
Dorchester Fire Emergency Response Site • Dorchester, Massachusetts



SCENE: View of the eastern exterior of the building. Photograph taken facing northwest.

FRAME NUMBER: 3 **DATE:** 2 November 2000

TIME: 1032

SKY CONDITION: Sunny

PHOTOGRAPH BY: Daniel Muzrall

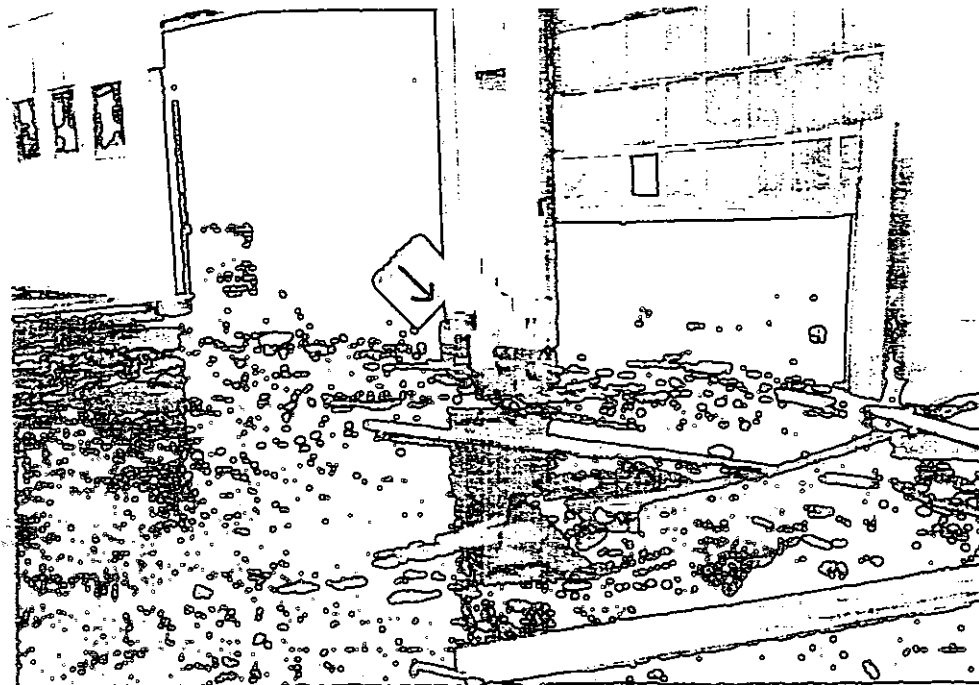
WITNESS(ES): Jessica Cajigas

CAMERA: Minolta

SETTING: Automatic

FILM TYPE: 35-mm

FILM ROLL: 4741



SCENE: View of three batteries located outside of the building. Photograph taken facing northwest.

FRAME NUMBER: 4 **DATE:** 2 November 2000

TIME: 1040

SKY CONDITION: Sunny

PHOTOGRAPH BY: Daniel Muzrall

WITNESS(ES): Jessica Cajigas

CAMERA: Minolta

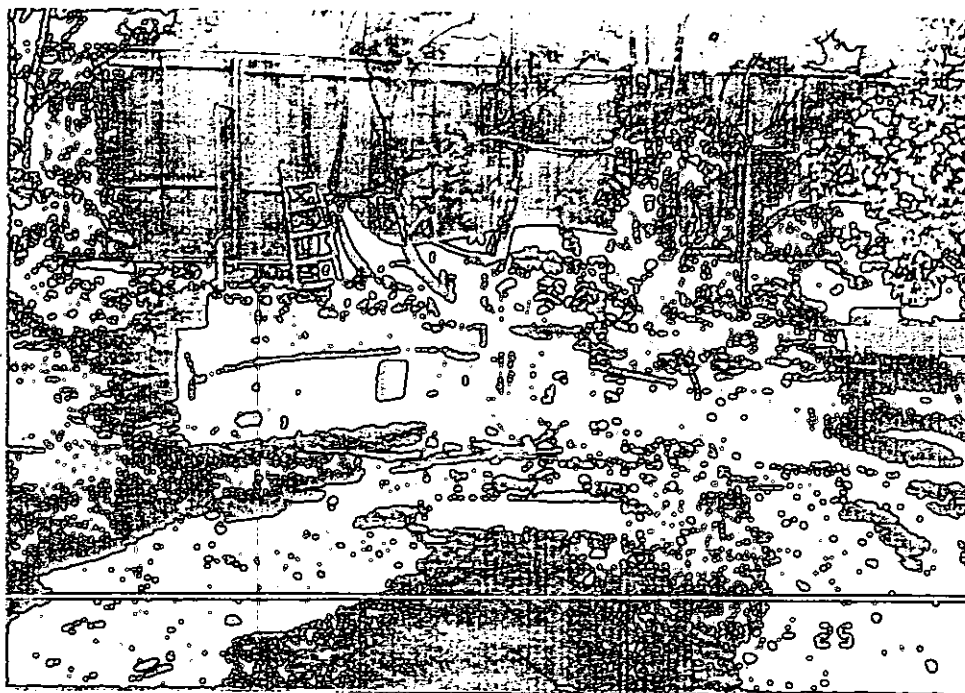
SETTING: Automatic

FILM TYPE: 35-mm

FILM ROLL: 4741

PHOTOGRAPHY LOG SHEET

Dorchester Fire Emergency Response Site • Dorchester, Massachusetts



SCENE: View of an aboveground storage tank cut in half and a drum located east of the building. Photograph taken facing northeast.

FRAME NUMBER: 5 DATE: 2 November 2000

TIME: 1041

SKY CONDITION: Sunny

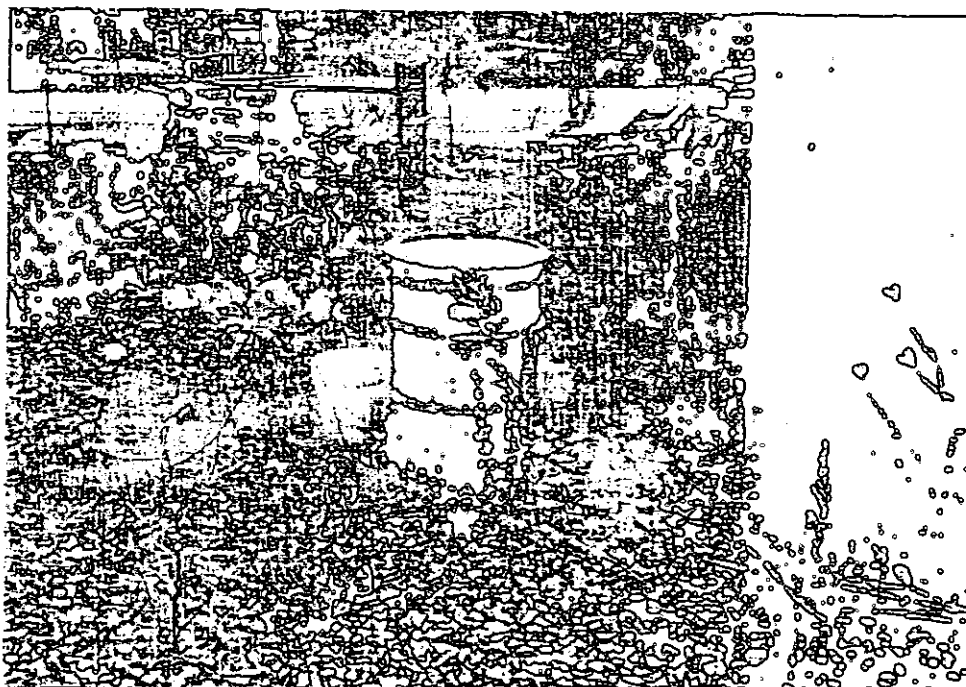
PHOTOGRAPH BY: Daniel Muzrall

WITNESS(ES): Jessica Cajigas

CAMERA: Minolta SETTING: Automatic

FILM TYPE: 35-mm

FILM ROLL: 4741



SCENE: View of a drum located along the southern perimeter of the site. Photograph taken facing south.

FRAME NUMBER: 6 DATE: 2 November 2000

TIME: 1042

SKY CONDITION: Sunny

PHOTOGRAPH BY: Daniel Muzrall

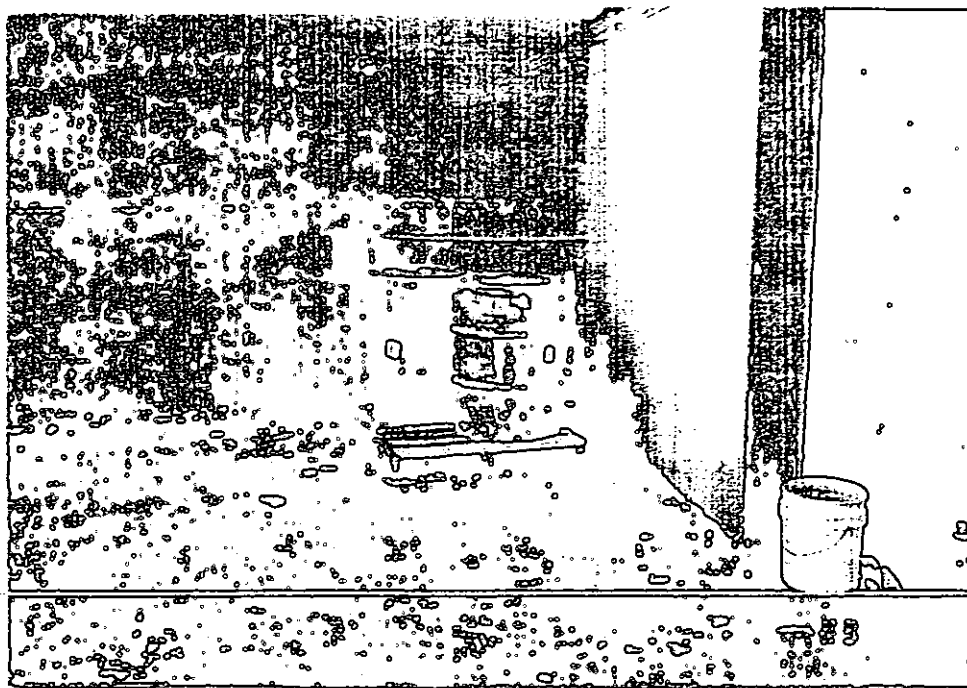
WITNESS(ES): Jessica Cajigas

CAMERA: Minolta SETTING: Automatic

FILM TYPE: 35-mm

FILM ROLL: 4741

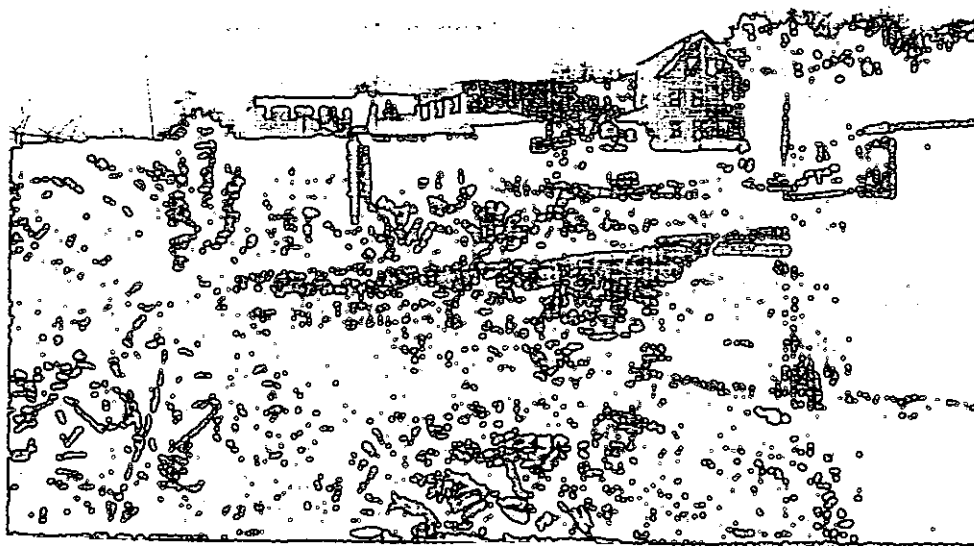
PHOTOGRAPHY LOG SHEET
Dorchester Fire Emergency Response Site • Dorchester, Massachusetts



SCENE: View of two drums labeled "corrosive" located adjacent to a cement shed along the southern perimeter of the site. Photograph taken facing west.

FRAME NUMBER: 7 **DATE:** 2 November 2000
PHOTOGRAPH BY: Daniel Muzrall
CAMERA: Minolta **SETTING:** Automatic

TIME: 1050 **SKY CONDITION:** Sunny
WITNESS(ES): Jessica Cajigas
FILM TYPE: 35-mm **FILM ROLL:** 4741

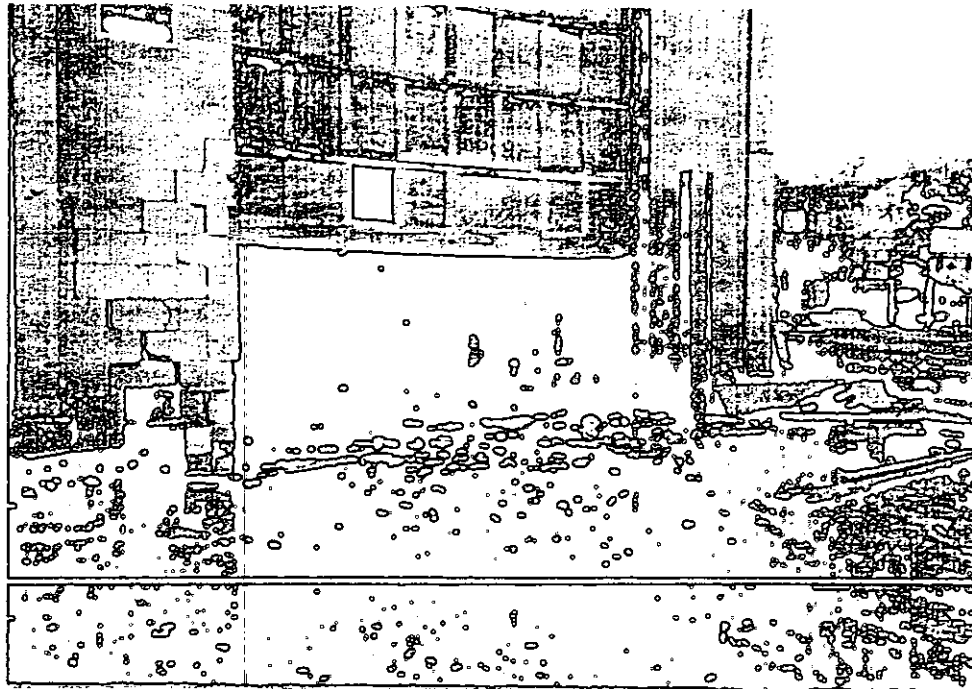


SCENE: View of the cement shed located along the southern perimeter of the site. Photograph taken facing west.

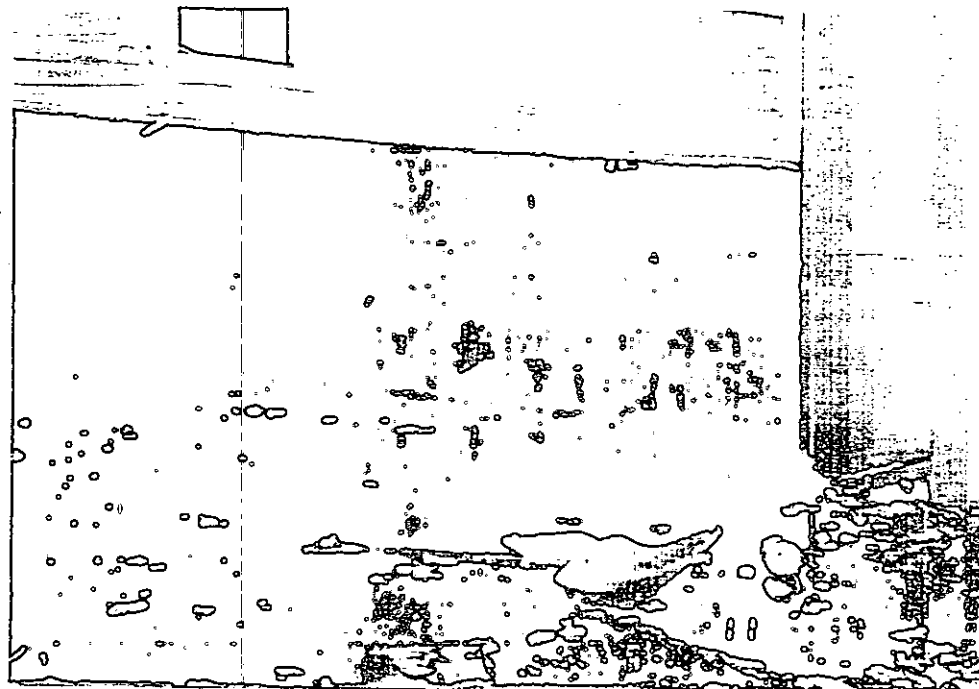
FRAME NUMBER: 8 **DATE:** 2 November 2000
PHOTOGRAPH BY: Daniel Muzrall
CAMERA: Minolta **SETTING:** Automatic

TIME: 1053 **SKY CONDITION:** Sunny
WITNESS(ES): Jessica Cajigas
FILM TYPE: 35-mm **FILM ROLL:** 4741

PHOTOGRAPHY LOG SHEET
Dorchester Fire Emergency Response Site • Dorchester, Massachusetts



SCENE: View of three drums located in the eastern-most room inside the building. Photograph taken facing northeast.
FRAME NUMBER: 9 **DATE:** 2 November 2000 **TIME:** 1057 **SKY CONDITION:** Sunny
PHOTOGRAPH BY: Daniel Muzrall **WITNESS(ES):** Jessica Cajigas
CAMERA: Minolta **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 4741



SCENE: View of three drums located in the eastern-most room inside the building. Photograph taken facing northeast.
FRAME NUMBER: 10 **DATE:** 2 November 2000 **TIME:** 1058 **SKY CONDITION:** Sunny
PHOTOGRAPH BY: Daniel Muzrall **WITNESS(ES):** Jessica Cajigas
CAMERA: Minolta **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 4741

PHOTOGRAPHY LOG SHEET
Dorchester Fire Emergency Response Site • Dorchester, Massachusetts



Roy F. Weston, Inc.
37 Upton Drive
Wilmington, MA 01887

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM (START)

ATTACHMENT D

Field Screening Analytical Results



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

CDW Consultants, Inc.
111 Speen Street - Suite 119
Framingham, MA 01701

Attn: Kathleen Campbell

Client Project Number: 900



Monday, December 31, 2001

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

AC87785

B-3/S-1

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87786

B-5/S-2

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87787

B-8/S-2

Ultrasonic Extraction
EPH Aliphatics/Aromatics



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

AC87787

B-8/S-2

EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury

AC87788

B-10/S-1

% Solids
Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury

AC87789

B-19/S-1

% Solids
Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury

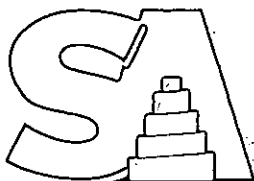
AC87790

B-21/S-1

% Solids
Ultrasonic Extraction

Page 2 of 5

ENVIRONMENTAL ANALYSES



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

AC87790

B-21/S-1

EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87791

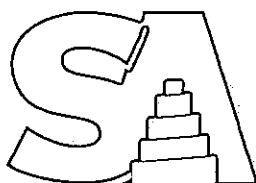
B-26/S-2

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87792

CDW-3/S-2

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids



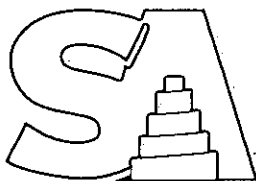
SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: Fmr Sax Property - MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AC87793	Dup	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes VOC Extraction (solid) VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS Metals Digestion Mercury Digestion Total PP13 Metals Total Mercury % Solids
AC87794	Blank	VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS
AC87795	PCB-1	Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC Ultrasonic Extraction PAHs by GC/MS % Solids
AC87796	PCB-2	Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC Ultrasonic Extraction PAHs by GC/MS % Solids
AC87797	PCB-3	Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC Ultrasonic Extraction PAHs by GC/MS % Solids
AC87798	PCB-4	Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC Ultrasonic Extraction PAHs by GC/MS % Solids



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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Authorized by

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Fmr Sax Property - MA

Client: CDW

Lab ID No: AC87785

Client Id: B-3/S-1

Client Project No: 900

Submittal Date: 12/13/01

Collection Date: 12/10/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/10/01		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	1400	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	700	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	350	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B

Lab ID No: AC87785
Client Id: B-3/S-1

Collection Date: 12/10/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
<i>VOCs by GC/MS</i>						
1,2-Dichloropropane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	700	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	700	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	102	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	104	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
<i>VPH Aliphatics/Aromatics</i>						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.05	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.350	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.350	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.05	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.350	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Aliphatics/Aromatics						
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	140	12/21/01	RLJ	MA VPH 97-12
o-Xylene	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	93	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	101	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/14/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	120	mg/Kg	30	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Phenanthrene	390	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Fluoranthene	610	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Pyrene	560	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	350	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Chrysene	470	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	920	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	410	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	610	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	430	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	400	ug/Kg	150	12/27/01	MB	MA EPH 98-1

Lab ID No: AC87785

Client Id: B-3/S-1

Collection Date: 12/10/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
1-Chloro-octadecane Aliphatic (%SR)	81	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	67	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	87	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	88	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Metals Preparation						
Mercury Digestion	Completed			12/21/01	LFR	EPA 245.1
Metals Digestion	Completed			12/21/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	20.9	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	2.95	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.491	12/27/01	RE	EPA 200.7
Total Cadmium	1.59	mg/Kg	0.491	12/27/01	RE	EPA 200.7
Total Chromium	19.3	mg/Kg	0.982	12/27/01	RE	EPA 200.7
Total Copper	326	mg/Kg	0.982	12/27/01	RE	EPA 200.7
Total Lead	399	mg/Kg	1.47	12/27/01	RE	EPA 200.7
Total Nickel	22.8	mg/Kg	0.982	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.91	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.96	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	5.40	12/27/01	RE	EPA 200.7
Total Zinc	400	mg/Kg	0.982	12/27/01	RE	EPA 200.7
Total Mercury	0.304	mg/Kg	0.196	12/22/01	EP	EPA 245.1
% Solids	91.1	%		12/14/01	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/10/01		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	2380	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	595	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
<i>VOCs by GC/MS</i>						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	240	12/21/01	RLJ	SW846 8260B
Naphthalene	290	ug/Kg	119	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	107	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	102	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	105	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
<i>VPH Aliphatics/Aromatics</i>						
C5-C8 Aliphatic Hydrocarbons	29.2	mg/Kg	1.78	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	11.7	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	29.2	mg/Kg	1.78	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	12.0	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
<i>VPH Target Analytes</i>						
Benzene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	240	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Naphthalene	290	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	77	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	107	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/14/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	64	mg/Kg	50	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	600	mg/Kg	50	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	75	mg/Kg	50	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	130	mg/Kg	50	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	330	ug/Kg	230	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Acenaphthene	950	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Fluorene	980	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Phenanthrene	7,300	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Anthracene	2,000	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Fluoranthene	6,700	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Pyrene	5,400	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	3,400	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Chrysene	3,500	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	6,700	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	2,500	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	5,300	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	3,900	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	4,500	ug/Kg	230	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	81	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	47	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	76	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	72	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87786

Collection Date: 12/10/01

Client Id: B-5/S-2

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/21/01	LFR	EPA 245.1
Metals Digestion	Completed			12/21/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.20	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.20	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.533	12/27/01	RE	EPA 200.7
Total Cadmium	19.2	mg/Kg	0.533	12/27/01	RE	EPA 200.7
Total Chromium	84.3	mg/Kg	1.07	12/27/01	RE	EPA 200.7
Total Copper	13,600	mg/Kg	1.07	12/27/01	RE	EPA 200.7
Total Lead	21,800	mg/Kg	1.60	12/27/01	RE	EPA 200.7
Total Nickel	151	mg/Kg	1.07	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.20	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.13	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.20	12/27/01	RE	EPA 200.7
Total Zinc	23,100	mg/Kg	1.07	12/27/01	RE	EPA 200.7
Total Mercury	0.908	mg/Kg	0.199	12/22/01	EP	EPA 245.1
% Solids	79.6	%		12/14/01	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/10/01		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	3800	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1900	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	950	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1900	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1900	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Toluene	210	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	95	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	2.85	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.950	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.950	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	2.85	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.950	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
Toluene	210	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	380	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	74	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	95	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/14/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	140	mg/Kg	50	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	780	mg/Kg	50	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	510	mg/Kg	50	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	510	mg/Kg	50	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	93	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	81	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	95	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	92	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87787

Client Id: B-8/S-2

Collection Date: 12/10/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.95	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.95	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.658	12/27/01	RE	EPA 200.7
Total Cadmium	1.17	mg/Kg	0.658	12/27/01	RE	EPA 200.7
Total Chromium	10.5	mg/Kg	1.32	12/27/01	RE	EPA 200.7
Total Copper	62.0	mg/Kg	1.32	12/27/01	RE	EPA 200.7
Total Lead	79.0	mg/Kg	1.97	12/27/01	RE	EPA 200.7
Total Nickel	15.0	mg/Kg	1.32	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.95	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.63	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.95	12/27/01	RE	EPA 200.7
Total Zinc	574	mg/Kg	1.32	12/27/01	RE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.240	12/22/01	EP	EPA 245.1
% Solids	68.6	%		12/14/01	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/10/01		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	2380	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	140	ug/Kg	119	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	595	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B

Lab ID No: AC87788
Client Id: B-10/S-1

Collection Date: 12/10/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Ethylbenzene	120	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	240	12/21/01	RLJ	SW846 8260B
Naphthalene	180	ug/Kg	119	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Toluene	280	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	380	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	560	ug/Kg	238	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	96	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.78	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	1.5	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	1.6	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	2.2	mg/Kg	1.78	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	3.1	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
Toluene	280	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	120	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	560	ug/Kg	38	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
Naphthalene	180	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	72	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	96	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/14/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	300	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Phenanthrene	310	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	51	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	44	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	82	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	77	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87788

Client Id: B-10/S-1

Collection Date: 12/10/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.43	12/27/01	RE	EPA 200.7
Total Arsenic	35.7	mg/Kg	3.43	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.571	12/27/01	RE	EPA 200.7
Total Cadmium	12.4	mg/Kg	0.571	12/27/01	RE	EPA 200.7
Total Chromium	45.7	mg/Kg	1.14	12/27/01	RE	EPA 200.7
Total Copper	41,700	mg/Kg	1.14	12/27/01	RE	EPA 200.7
Total Lead	49,000	mg/Kg	1.71	12/27/01	RE	EPA 200.7
Total Nickel	85.6	mg/Kg	1.14	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.43	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.28	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.43	12/27/01	RE	EPA 200.7
Total Zinc	54,500	mg/Kg	1.14	12/27/01	RE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.198	12/22/01	EP	EPA 245.1
% Solids	79.4	%		12/14/01	RT	SM2540 B Mod

Lab ID No: AC87789
Client Id: B-19/S-1

Collection Date: 12/11/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/11/01		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	2180	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1090	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	545	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1090	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1090	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	770	12/21/01	RLJ	SW846 8260B
Naphthalene	240	ug/Kg	109	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	103	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.63	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	0.55	mg/Kg	0.545	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.545	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.63	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	0.71	mg/Kg	0.545	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	220	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
Naphthalene	240	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	82	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	101	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/18/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	110	mg/Kg	30	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	850	mg/Kg	30	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	219	mg/Kg	30	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	270	mg/Kg	30	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	170	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Acenaphthene	670	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Fluorene	730	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Phenanthrene	6,500	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Anthracene	2,200	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Fluoranthene	7,400	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Pyrene	5,800	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	3,200	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Chrysene	3,600	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	5,700	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	2,600	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	5,100	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	3,800	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	4,000	ug/Kg	170	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	55	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	57	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	97	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	88	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87789

Client Id: B-19/S-1

Collection Date: 12/11/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.15	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.15	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.525	12/27/01	RE	EPA 200.7
Total Cadmium	84.9	mg/Kg	0.525	12/27/01	RE	EPA 200.7
Total Chromium	135	mg/Kg	1.05	12/27/01	RE	EPA 200.7
Total Copper	4,100	mg/Kg	1.05	12/27/01	RE	EPA 200.7
Total Lead	12,500	mg/Kg	1.58	12/27/01	RE	EPA 200.7
Total Nickel	193	mg/Kg	1.05	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.15	12/27/01	RE	EPA 200.7
Total Silver	6.18	mg/Kg	2.10	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.15	12/27/01	RE	EPA 200.7
Total Zinc	31,700	mg/Kg	1.05	12/27/01	RE	EPA 200.7
Total Mercury	5.02	mg/Kg	0.187	12/22/01	EP	EPA 245.1
% Solids	84.6	%		12/18/01	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/11/01		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	1580	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	790	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	395	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	240	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	790	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	790	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	160	12/21/01	RLJ	SW846 8260B
Naphthalene	89	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	100	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	90	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	100	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	102	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	103	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.18	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	7.7	mg/Kg	0.395	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	0.58	mg/Kg	0.395	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.18	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	8.3	mg/Kg	0.395	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	160	12/21/01	RLJ	MA VPH 97-12

Lab ID No: AC87790
Client Id: B-21/S-1

Collection Date: 12/11/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
Naphthalene	89	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	82	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	100	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/18/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	2,300	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	5,100	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	843	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	846	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Phenanthrene	490	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Fluoranthene	540	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Pyrene	630	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	260	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Chrysene	360	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	550	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	400	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	81	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	60	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	93	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	86	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87790

Client Id: B-21/S-1

Collection Date: 12/11/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	2.69	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	2.69	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.448	12/27/01	RE	EPA 200.7
Total Cadmium	19.6	mg/Kg	0.448	12/27/01	RE	EPA 200.7
Total Chromium	36.2	mg/Kg	0.897	12/27/01	RE	EPA 200.7
Total Copper	2,100	mg/Kg	0.897	12/27/01	RE	EPA 200.7
Total Lead	974	mg/Kg	1.34	12/27/01	RE	EPA 200.7
Total Nickel	75.2	mg/Kg	0.897	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	2.69	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.79	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	2.69	12/27/01	RE	EPA 200.7
Total Zinc	1,200	mg/Kg	0.897	12/27/01	RE	EPA 200.7
Total Mercury	1.52	mg/Kg	0.185	12/22/01	EP	EPA 245.1
% Solids	93.2	%		12/18/01	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/11/01		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	1920	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	192	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	960	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	480	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	192	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	192	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	192	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	192	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
<i>VOCs by GC/MS</i>						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	960	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	960	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	200	12/21/01	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	192	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	105	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	106	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
<i>VPH Aliphatics/Aromatics</i>						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.44	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	2.2	mg/Kg	0.480	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.480	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.44	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	2.4	mg/Kg	0.480	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
<i>VPH Target Analytes</i>						
Benzene	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	75	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	105	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/18/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	430	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	6,700	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	1,500	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	1,500	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	80	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	82	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	55	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	53	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87791

Client Id: B-26/S-2

Collection Date: 12/11/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.33	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.33	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.554	12/27/01	RE	EPA 200.7
Total Cadmium	4.79	mg/Kg	0.554	12/27/01	RE	EPA 200.7
Total Chromium	13.7	mg/Kg	1.11	12/27/01	RE	EPA 200.7
Total Copper	23.7	mg/Kg	1.11	12/27/01	RE	EPA 200.7
Total Lead	64.3	mg/Kg	1.66	12/27/01	RE	EPA 200.7
Total Nickel	14.3	mg/Kg	1.11	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.33	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.22	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.33	12/27/01	RE	EPA 200.7
Total Zinc	204	mg/Kg	1.11	12/27/01	RE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.174	12/22/01	EP	EPA 245.1
% Solids	88.2	%		12/18/01	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/12/01		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	2960	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1480	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	740	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B

Lab ID No: AC87792
Client Id: CDW-3/S-2

Collection Date: 12/12/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1480	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1480	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	300	12/21/01	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	99	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	102	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	9.7	mg/Kg	2.22	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	2.2	mg/Kg	0.740	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.740	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	9.7	mg/Kg	2.22	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	2.3	mg/Kg	0.740	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	300	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	73	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	99	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/19/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	340	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Phenanthrene	1,000	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Anthracene	210	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Fluoranthene	1,100	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Pyrene	1,000	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	460	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Chrysene	670	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	870	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	460	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	790	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	500	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	610	ug/Kg	180	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	72	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	59	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	94	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	91	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87792
Client Id: CDW-3/S-2

Collection Date: 12/12/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.10	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.10	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.517	12/27/01	RE	EPA 200.7
Total Cadmium	30.9	mg/Kg	0.517	12/27/01	RE	EPA 200.7
Total Chromium	94.8	mg/Kg	1.03	12/27/01	RE	EPA 200.7
Total Copper	1,900	mg/Kg	1.03	12/27/01	RE	EPA 200.7
Total Lead	4,000	mg/Kg	1.55	12/27/01	RE	EPA 200.7
Total Nickel	146	mg/Kg	1.03	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.10	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.07	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.10	12/27/01	RE	EPA 200.7
Total Zinc	5,600	mg/Kg	1.03	12/27/01	RE	EPA 200.7
Total Mercury	4.16	mg/Kg	0.185	12/22/01	EP	EPA 245.1
% Solids	86.7	%		12/19/01	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/11/01		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	2420	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1210	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	605	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1210	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1210	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	250	12/21/01	RLJ	SW846 8260B
Naphthalene	190	ug/Kg	121	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	98	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	102	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	102	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.82	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.605	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.605	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.82	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.605	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	240	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Naphthalene	190	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	95	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	98	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/18/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	91	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	820	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	268	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	319	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	210	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Acenaphthene	720	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Fluorene	700	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Phenanthrene	6,200	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Anthracene	1,500	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Fluoranthene	6,900	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Pyrene	5,900	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	3,300	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Chrysene	3,700	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	6,200	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	2,900	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	5,200	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	3,900	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	210	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	4,200	ug/Kg	210	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	58	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	54	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	76	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	72	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87793

Collection Date: 12/11/01

Client Id: Dup

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.28	12/27/01	RE	EPA 200.7
Total Arsenic	4.99	mg/Kg	3.28	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.546	12/27/01	RE	EPA 200.7
Total Cadmium	381	mg/Kg	0.546	12/27/01	RE	EPA 200.7
Total Chromium	165	mg/Kg	1.09	12/27/01	RE	EPA 200.7
Total Copper	6,200	mg/Kg	1.09	12/27/01	RE	EPA 200.7
Total Lead	38,500	mg/Kg	1.64	12/27/01	RE	EPA 200.7
Total Nickel	181	mg/Kg	1.09	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.28	12/27/01	RE	EPA 200.7
Total Silver	322	mg/Kg	2.18	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.28	12/27/01	RE	EPA 200.7
Total Zinc	30,900	mg/Kg	1.09	12/27/01	RE	EPA 200.7
Total Mercury	0.574	mg/Kg	0.204	12/22/01	EP	EPA 245.1
% Solids	83.5	%		12/18/01	AAS	SM2540 B Mod

Lab ID No: AC87794
Client Id: Blank

Collection Date: 12/10/01
Matrix: Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	1000	12/17/01	GW	SW846 8260B
Acrylonitrile	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Benzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Bromobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Bromochloromethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Bromoform	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Bromomethane	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	500	12/17/01	GW	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Carbon disulfide	Below det lim	ug/L	250	12/17/01	GW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Chlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Chloroethane	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
Chloroform	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Chloromethane	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Dibromomethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Ethylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B

Lab ID No: AC87794
Client Id: Blank

Collection Date: 12/10/01
Matrix: Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	500	12/17/01	GW	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	500	12/17/01	GW	SW846 8260B
Methylene chloride	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Naphthalene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Styrene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Toluene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Vinyl chloride	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
o-Xylene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
4-Bromofluorobenzene (%SR)	96	ug/L	0.000	12/17/01	GW	SW846 8260B
1,4-Difluorobenzene (%SR)	98	ug/L	0.000	12/17/01	GW	SW846 8260B
Chlorobenzene-d5 (%SR)	95	ug/L	0.000	12/17/01	GW	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.750	12/17/01	GW	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.250	12/17/01	GW	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.250	12/17/01	GW	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.750	12/17/01	GW	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.250	12/17/01	GW	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/L	0.	12/17/01	GW	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12
Toluene	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	100	12/17/01	GW	MA VPH 97-12
o-Xylene	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12
Naphthalene	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12

Lab ID No: AC87794
Client Id: Blank

Collection Date: 12/10/01
Matrix: Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
<i>VPH Target Analytes</i>						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	12/17/01	GW	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	12/17/01	GW	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	87	ug/L	0.	12/17/01	GW	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	99	ug/L	0.	12/17/01	GW	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/L	0.	12/17/01	GW	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			12/19/01	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>PAHs by GC/MS</i>						
Naphthalene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Phenanthrene	620	ug/Kg	157	12/27/01	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Fluoranthene	1,400	ug/Kg	157	12/27/01	MSL	SW846 8270C
Pyrene	1,800	ug/Kg	157	12/27/01	MSL	SW846 8270C
Benzo (a) anthracene	820	ug/Kg	157	12/27/01	MSL	SW846 8270C
Chrysene	920	ug/Kg	157	12/27/01	MSL	SW846 8270C
Benzo (b) fluoranthene	1,200	ug/Kg	157	12/27/01	MSL	SW846 8270C
Benzo (k) fluoranthene	820	ug/Kg	157	12/27/01	MSL	SW846 8270C
Benzo (a) pyrene	1,100	ug/Kg	157	12/27/01	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	770	ug/Kg	157	12/27/01	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Benzo (g,h,i) perylene	920	ug/Kg	157	12/27/01	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	63	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Terphenyl-d14 (%SR)	52	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Semivolatile Organic Compounds						
<i>Organochlorine Pesticides by GC</i>						
Aldrin	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	30	12/19/01	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A

Lab ID No: AC87795

Collection Date: 12/12/01

Client Id: PCB-1

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Organochlorine Pesticides by GC						
Methoxychlor	Below det lim	ug/Kg	10	12/19/01	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	70	12/19/01	TG	SW846 8081A
Decachlorobiphenyl (%SR)	99	ug/Kg	0.	12/19/01	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	29	12/19/01	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	29	12/19/01	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	29	12/19/01	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	29	12/19/01	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	29	12/19/01	TG	SW846 8082
PCB-1254	450	ug/Kg	29	12/19/01	TG	SW846 8082
PCB-1260	180	ug/Kg	29	12/19/01	TG	SW846 8082
Decachlorobiphenyl (%SR)	99	ug/Kg	0.00	12/19/01	TG	SW846 8082
% Solids	90.1	%		12/19/01	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			12/19/01	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
Phenanthrene	1,200	ug/Kg	169	12/27/01	MSL	SW846 8270C
Anthracene	230	ug/Kg	169	12/27/01	MSL	SW846 8270C
Fluoranthene	2,200	ug/Kg	169	12/27/01	MSL	SW846 8270C
Pyrene	2,500	ug/Kg	169	12/27/01	MSL	SW846 8270C
Benzo (a) anthracene	1,100	ug/Kg	169	12/27/01	MSL	SW846 8270C
Chrysene	1,300	ug/Kg	169	12/27/01	MSL	SW846 8270C
Benzo (b) fluoranthene	1,300	ug/Kg	169	12/27/01	MSL	SW846 8270C
Benzo (k) fluoranthene	970	ug/Kg	169	12/27/01	MSL	SW846 8270C
Benzo (a) pyrene	1,200	ug/Kg	169	12/27/01	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	820	ug/Kg	169	12/27/01	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
Benzo (g,h,i) perylene	910	ug/Kg	169	12/27/01	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	49	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Terphenyl-d14 (%SR)	79	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	30	12/19/01	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A

Lab ID No: AC87796

Client Id: PCB-2

Collection Date: 12/12/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Organochlorine Pesticides by GC						
Methoxychlor	Below det lim	ug/Kg	10	12/19/01	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	70	12/19/01	TG	SW846 8081A
Decachlorobiphenyl (%SR)	88	ug/Kg	0.	12/19/01	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1254	900	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1260	1,300	ug/Kg	28	12/19/01	TG	SW846 8082
Decachlorobiphenyl (%SR)	88	ug/Kg	0.00	12/19/01	TG	SW846 8082
% Solids	92.4	%		12/19/01	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			12/19/01	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Phenanthrene	310	ug/Kg	179	12/27/01	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Fluoranthene	1,400	ug/Kg	179	12/27/01	MSL	SW846 8270C
Pyrene	2,300	ug/Kg	179	12/27/01	MSL	SW846 8270C
Benzo (a) anthracene	1,100	ug/Kg	179	12/27/01	MSL	SW846 8270C
Chrysene	1,100	ug/Kg	179	12/27/01	MSL	SW846 8270C
Benzo (b) fluoranthene	1,600	ug/Kg	179	12/27/01	MSL	SW846 8270C
Benzo (k) fluoranthene	970	ug/Kg	179	12/27/01	MSL	SW846 8270C
Benzo (a) pyrene	1,500	ug/Kg	179	12/27/01	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	1,100	ug/Kg	179	12/27/01	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Benzo (g,h,i) perylene	1,300	ug/Kg	179	12/27/01	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	42	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Terphenyl-d14 (%SR)	70	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	200	12/19/01	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A

Lab ID No: AC87797
Client Id: PCB-3

Collection Date: 12/12/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Organochlorine Pesticides by GC						
Methoxychlor	Below det lim	ug/Kg	80	12/19/01	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	400	12/19/01	TG	SW846 8081A
Decachlorobiphenyl (%SR)	105	ug/Kg	0.	12/19/01	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
Decachlorobiphenyl (%SR)	105	ug/Kg	0.00	12/19/01	TG	SW846 8082
% Solids	89.1	%		12/19/01	RT	SM2540 B Mod

Lab ID No: AC87798

Client Id: PCB-4

Collection Date: 12/12/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			12/19/01	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Phenanthrene	940	ug/Kg	186	12/27/01	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Fluoranthene	1,900	ug/Kg	186	12/27/01	MSL	SW846 8270C
Pyrene	2,400	ug/Kg	186	12/27/01	MSL	SW846 8270C
Benzo (a) anthracene	1,300	ug/Kg	186	12/27/01	MSL	SW846 8270C
Chrysene	1,200	ug/Kg	186	12/27/01	MSL	SW846 8270C
Benzo (b) fluoranthene	1,700	ug/Kg	186	12/27/01	MSL	SW846 8270C
Benzo (k) fluoranthene	1,100	ug/Kg	186	12/27/01	MSL	SW846 8270C
Benzo (a) pyrene	1,600	ug/Kg	186	12/27/01	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	1,100	ug/Kg	186	12/27/01	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Benzo (g,h,i) perylene	1,300	ug/Kg	186	12/27/01	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	76	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Terphenyl-d14 (%SR)	64	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Alpha-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Beta-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Delta-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Gamma-BHC (Lindane)	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	200	12/19/01	TG	SW846 8081A
1,4'-DDD	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
1,4'-DDE	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
1,4'-DDT	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A

Lab ID No: AC87798

Client Id: PCB-4

Collection Date: 12/12/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Organochlorine Pesticides by GC						
Methoxychlor	Below det lim	ug/Kg	80	12/19/01	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	400	12/19/01	TG	SW846 8081A
Decachlorobiphenyl (%SR)	102	ug/Kg	0.	12/19/01	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1254	22,300	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1260	11,600	ug/Kg	250	12/19/01	TG	SW846 8082
Decachlorobiphenyl (%SR)	102	ug/Kg	0.00	12/19/01	TG	SW846 8082
% Solids	82.7	%		12/19/01	RT	SM2540 B Mod

Lab ID No: AC87798
Client Id: PCB-4

Collection Date: 12/12/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
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The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Aqueous Preservative	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH ≤ 2 <input type="checkbox"/> pH > 2 <input type="checkbox"/> pH adjusted to ≤ 2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 3.5°C

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:	
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking	
Sample Preservative	Aqueous	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH ≤ 2 <input type="checkbox"/> pH > 2 Comment:
	Soil or Sediment	<input type="checkbox"/> N/A <input type="checkbox"/> Samples NOT received in Methanol or air-tight container
		<input checked="" type="checkbox"/> Samples received in Methanol covering soil <input type="checkbox"/> not covering soil
		<input type="checkbox"/> Sample received in air-tight container:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 3.5°C	

Were all QA/QC procedures followed as required by the VPH method? Yes ☒ No ☐

Were any significant modifications made to the VPH method, as specified in Section 11.3? No * see below

Were all QA/QC procedures followed as required by the EPH method? Yes ☒ No ☐

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes ** see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes ☒ No ☐

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method.

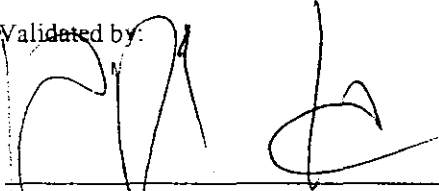
** Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

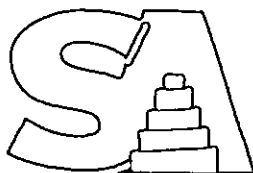
Reviewed by:


Quality Service/Quality Assurance Depts.

Validated by:


President/Laboratory Director

12/31/01



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report Supplement

References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



SPECTRUM ANALYTICAL, INC.

Featuring

HARBOR TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 2

Report To: CDW Consultants, Inc111 Speen St.Frammingham, MA 01701Project Mgr.: Kathleen CampbellInvoice To: SamePO Box 10003524P.O. No.: RQN: 3339-Project No.: 900Site Name: Former Sox PropertyLocation: Dorchester State: MASampler(s): Brian Miller1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=~~4°C~~ 10=DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix
AS7785	B-3/S-1	12/10	10:05	G	SO79
AS7786	B-5/S-2	12/10	11:00		
AS7787	B-8/S-2	12/10	1:25		
AS7788	B-10/S-1	12/10	1:55		
AS7789	B-19/S-1	12/11	10:05		
AS7790	B-21/S-1	12/11	11:05		
AS7791	B-26/S-2	12/11	2:15		
AS7792	CDW-3/S-2	12/12	11:00		
AS7793	DUP	12/11	10:05		
AS7794	Blank	12/10	8:00		

Preservative

Containers:

Analyses:

Notes:

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

EPA w/PAHS

VPH w/8260

X PPM13

Relinquished by:

Received by:

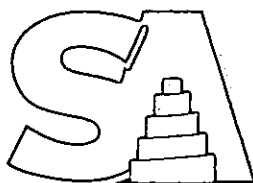
Date:

Time:

☐ Fax results when available to ()☒ E-mail results when available to bmiller@cdwconCondition upon Receipt: ☐ Iced ☐ Ambient ☐ 3.5°C

R&F

12/12BMiller@CDWCON12/13/0112/13/0114:3016:57



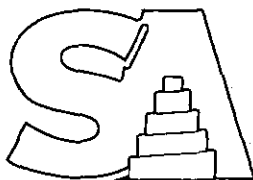
SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: MDC-Sax - Dorchester, MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AC90196	CDW-3	EPH Target PAH Analytes VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS Metals Filtration Soluble Mercury Digestion Soluble PP13 Metals Soluble Mercury Total Cyanide
AC90197	CDW-4	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS Metals Filtration Soluble Mercury Digestion Soluble PP13 Metals Soluble Mercury Total Cyanide
AC90198	Dup	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS Metals Filtration Soluble Mercury Digestion Soluble PP13 Metals Soluble Mercury Total Cyanide
AC90199	Blank	VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS VOC Matrix Spike Recovery



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: MDC-Sax - Dorchester, MA

Laboratory ID

AC90199

Client Sample ID

Blank

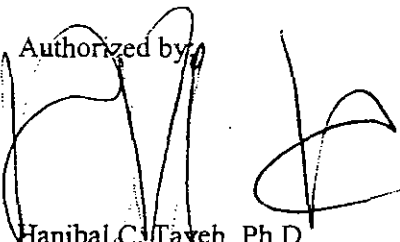
Analyses Requested

Duplicate VOC Matrix Spike Rec

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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Authorized by



Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: MDC-Sax - Dorchester, MA

Client: CDW

Lab ID No: AC90194

Client Id: CDW-1

Client Project No: 900

Submittal Date: 12/27/01

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	1.7	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	97	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	78	ug/L	0.	1/2/02	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	92	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			1/2/02	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.83	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		1/4/02	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	83	ug/L	0.	1/4/02	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	73	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	53	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	58	ug/L	0.	1/4/02	MB	MA EPH 98-1

Lab ID No: AC90194

Client Id: CDW-1

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
Target Analyte Dilution Factor	1	ug/L	0.	1/4/02	MB	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			1/4/02	EP	
Soluble Mercury Digestion	Completed			1/4/02	LK	EPA 245.1
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	0.0147	mg/L	0.006	1/4/02	KSR	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	1/4/02	KSR	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	1/4/02	KSR	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	1/4/02	KSR	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Copper	0.0064	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Lead	0.0676	mg/L	0.00375	1/4/02	KSR	EPA 200.7
Soluble Nickel	0.0336	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	1/4/02	KSR	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Zinc	0.992	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	1/7/02	EP	EPA 245.1
General Chemistry						
Total Cyanide	Below det lim	mg/L	0.01	1/3/02	YV	SM 4500-CN-E

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Lab ID No: AC90195
Client Id: CDW-2

Collection Date: 12/26/01
Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	107	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	106	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Lab ID No: AC90195
Client Id: CDW-2

Collection Date: 12/26/01
Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	92	ug/L	0.	1/2/02	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	107	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			1/2/02	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.55	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		1/4/02	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	78	ug/L	0.	1/4/02	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	76	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	77	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	79	ug/L	0.	1/4/02	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	1/4/02	MB	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			1/4/02	EP	
Soluble Mercury Digestion	Completed			1/4/02	LK	EPA 245.1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Analysis						
Soluble PPI3 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	1/4/02	KSR	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	1/4/02	KSR	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	1/4/02	KSR	EPA 200.7
Soluble Cadmium	0.0038	mg/L	0.00125	1/4/02	KSR	EPA 200.7
Soluble Chromium	0.0032	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Copper	0.0455	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Lead	0.0176	mg/L	0.00375	1/4/02	KSR	EPA 200.7
Soluble Nickel	0.0114	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	1/4/02	KSR	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Zinc	0.142	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	1/7/02	EP	EPA 245.1
General Chemistry						
Total Cyanide	Below det lim	mg/L	0.01	1/3/02	YV	SM 4500-CN-E

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	90	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	97	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	95	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	nc	ug/L	0.	1/2/02	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	90	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			1/2/02	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.76	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	0.21	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	0.26	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		1/4/02	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Phenanthrene	9.6	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluoranthene	11	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Pyrene	12	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (b) fluoranthene	7.5	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) pyrene	7.2	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	58	ug/L	0.	1/4/02	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	66	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	80	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	76	ug/L	0.	1/4/02	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	1/4/02	MB	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			1/4/02	EP	
Soluble Mercury Digestion	Completed			1/4/02	LK	EPA 245.1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	1/4/02	KSR	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	1/4/02	KSR	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	1/4/02	KSR	EPA 200.7
Soluble Cadmium	0.0048	mg/L	0.00125	1/4/02	KSR	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Copper	0.0297	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Lead	Below det lim	mg/L	0.00375	1/4/02	KSR	EPA 200.7
Soluble Nickel	0.0609	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	1/4/02	KSR	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Zinc	1.79	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	1/7/02	EP	EPA 245.1
General Chemistry						
Total Cyanide	0.01	mg/L	0.01	1/3/02	YV	SM 4500-CN-E

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Lab ID No: AC90197

Client Id: CDW-4

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	95	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	98	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	82	ug/L	0.	1/2/02	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	95	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			1/2/02	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.79	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		1/4/02	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	64	ug/L	0.	1/4/02	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	53	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	64	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	60	ug/L	0.	1/4/02	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	1/4/02	MB	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			1/4/02	EP	
Soluble Mercury Digestion	Completed			1/4/02	LK	EPA 245.1

Lab ID No: AC90197

Collection Date: 12/26/01

Client Id: CDW-4

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	1/4/02	KSR	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	1/4/02	KSR	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	1/4/02	KSR	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	1/4/02	KSR	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Copper	0.0339	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Lead	0.0093	mg/L	0.00375	1/4/02	KSR	EPA 200.7
Soluble Nickel	0.0116	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	1/4/02	KSR	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Zinc	0.387	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	1/7/02	EP	EPA 245.1
General Chemistry						
Total Cyanide	Below det lim	mg/L	0.01	1/3/02	YV	SM 4500-CN-E

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Lab ID No: AC90198

Client Id: Dup

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
p-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	95	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	98	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
p-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	nc	ug/L	0.	1/2/02	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	95	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			1/3/02	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.72	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	0.22	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	0.25	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		1/4/02	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Phenanthrene	8.0	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluoranthene	7.5	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Pyrene	8.6	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (b) fluoranthene	6.1	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	80	ug/L	0.	1/4/02	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	57	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	74	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	71	ug/L	0.	1/4/02	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	1/4/02	MB	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			1/4/02	EP	
Soluble Mercury Digestion	Completed			1/4/02	LK	EPA 245.1

Lab ID No: AC90198

Client Id: Dup

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Analysis						
<i>Soluble PP13 Metals</i>						
Soluble Antimony	Below det lim	mg/L	0.006	1/4/02	KSR	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	1/4/02	KSR	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	1/4/02	KSR	EPA 200.7
Soluble Cadmium	0.0053	mg/L	0.00125	1/4/02	KSR	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Copper	0.0284	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Lead	Below det lim	mg/L	0.00375	1/4/02	KSR	EPA 200.7
Soluble Nickel	0.0664	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	1/4/02	KSR	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Zinc	1.95	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	1/7/02	EP	EPA 245.1
General Chemistry						
Total Cyanide	Below det lim	mg/L	0.01	1/3/02	YV	SM 4500-CN-E

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Lab ID No: AC90199

Client Id: Blank

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	96	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	99	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	98	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Lab ID No: AC90199

Client Id: Blank

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
<i>VPH Target Analytes</i>						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	77	ug/L	0.	1/2/02	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	96	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12

Lab ID No: AC90199
Client Id: Blank

Collection Date: 12/26/01
Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
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The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Aqueous Preservative	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH>2 <input type="checkbox"/> pH adjusted to \leq 2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 8°C

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrix	<input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:	
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking	
Sample Preservative	Aqueous	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH>2 Comment:
	Soil or Sediment	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Samples NOT received in Methanol or air-tight container
		<input type="checkbox"/> Samples received in Methanol covering soil <input type="checkbox"/> not covering soil
		<input type="checkbox"/> Sample received in air-tight container:
		ml Methanol/g soil <input type="checkbox"/> 1:1 +/- 25% <input type="checkbox"/> Other:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 8°C	

Were all QA/QC procedures followed as required by the VPH method? Yes ☒ No ☐

Were any significant modifications made to the VPH method, as specified in Section 11.3? No * see below

Were all QA/QC procedures followed as required by the EPH method? Yes ☒ No ☐

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes ** see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes ☒ No ☐

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method.

** Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Reviewed by:

Validated by:

Quality Service/Quality Assurance Depts.

President/Laboratory Director

1/7/02



SPECTRUM ANALYTICAL, INC.

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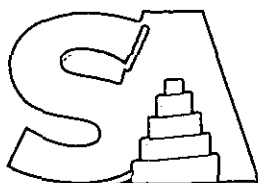
Laboratory Report Supplement

References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



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Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

CDW Consultants, Inc.
111 Speen Street - Suite 119
Framingham, MA 01701

Attn: Kathleen Campbell

Client Project Number: 900



Friday, January 11, 2002

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report

Location: Fmr Sax Property - MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AC91215	Debris-1	Asbestos Determination Metals Digestion Total Lead Polychlorinated Biphenyls by GC Ultrasonic Extraction
AC91216	Debris-2	Asbestos Determination Metals Digestion Total Lead Polychlorinated Biphenyls by GC Ultrasonic Extraction
AC91217	Debris-3	Asbestos Determination Metals Digestion Total Lead Polychlorinated Biphenyls by GC Ultrasonic Extraction
AC91218	Debris-4	Asbestos Determination Metals Digestion Total Lead Polychlorinated Biphenyls by GC Ultrasonic Extraction
AC91219	Debris-5	Asbestos Determination Metals Digestion Total Lead Polychlorinated Biphenyls by GC Ultrasonic Extraction



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Client Project Number: 900

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by

Hanibal C. Yajeh, Ph.D.

President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Fmr Sax Property - MA

Client: CDW

Lab ID No: AC91215

Client Id: Debris-1

Client Project No: 900

Submittal Date: 1/7/02

Collection Date: 12/26/01

Matrix: Debris

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			1/9/02	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
PCB-1260	739,700	ug/Kg	250	1/9/02	TG	SW846 8082
Decachlorobiphenyl (%SR)	82	ug/Kg	0.00	1/9/02	TG	SW846 8082
Metals Preparation						
Metals Digestion	Completed			1/9/02	LFR	EPA 200.7
Metals Analysis						
Total Lead	21.6	mg/Kg	1.46	1/10/02	KSC	200.7/6010B
Subcontracted Analyses						
<i>Asbestos Determination</i>						
% Asbestos	Below det lim	%	1	1/10/02	TRC	EPA 600R
Asbestos Type	None	%		1/10/02	TRC	EPA 600R

Lab ID No: AC91216

Client Id: Debris-2

Collection Date: 12/26/01

Matrix: Debris

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			1/9/02	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
Decachlorobiphenyl (%SR)	92	ug/Kg	0.00	1/9/02	TG	SW846 8082
Metals Preparation						
Metals Digestion	Completed			1/9/02	LFR	EPA 200.7
Metals Analysis						
Total Lead	56.9	mg/Kg	1.52	1/10/02	KSC	200.7/6010B
Subcontracted Analyses						
<i>Asbestos Determination</i>						
% Asbestos	Below det lim	%	1	1/10/02	TRC	EPA 600R
Asbestos Type	None	%		1/10/02	TRC	EPA 600R

Lab ID No: AC91217
Client Id: Debris-3

Collection Date: 12/26/01
Matrix: Debris

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			1/9/02	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1260	61	ug/Kg	36	1/9/02	TG	SW846 8082
Decachlorobiphenyl (%SR)	95	ug/Kg	0.00	1/9/02	TG	SW846 8082
Metals Preparation						
Metals Digestion	Completed			1/9/02	LFR	EPA 200.7
Metals Analysis						
Total Lead	7.77	mg/Kg	0.015	1/10/02	KSC	200.7/6010B
Subcontracted Analyses						
<i>Asbestos Determination</i>						
% Asbestos	Below det lim	%	1	1/10/02	TRC	EPA 600R
Asbestos Type	None	%		1/10/02	TRC	EPA 600R

Lab ID No: AC91218
Client Id: Debris-4

Collection Date: 12/26/01
Matrix: Debris

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			1/9/02	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1260	180	ug/Kg	28	1/9/02	TG	SW846 8082
Decachlorobiphenyl (%SR)	104	ug/Kg	0.00	1/9/02	TG	SW846 8082
Metals Preparation						
Metals Digestion	Completed			1/9/02	LFR	EPA 200.7
Metals Analysis						
Total Lead	7.54	mg/Kg	1.45	1/11/02	KSC	200.7/6010B
Subcontracted Analyses						
<i>Asbestos Determination</i>						
% Asbestos	Below det lim	%	1	1/10/02	TRC	EPA 600R
Asbestos Type	None	%		1/10/02	TRC	EPA 600R

Lab ID No: AC91219
Client Id: Debris-5

Collection Date: 12/26/01
Matrix: Debris

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			1/9/02	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1260	9,900	ug/Kg	48	1/9/02	TG	SW846 8082
Decachlorobiphenyl (%SR)	96	ug/Kg	0.00	1/9/02	TG	SW846 8082
Metals Preparation						
Metals Digestion	Completed			1/9/02	LFR	EPA 200.7
Metals Analysis						
Total Lead	18.6	mg/Kg	1.38	1/10/02	KSC	200.7/6010B
Subcontracted Analyses						
<i>Asbestos Determination</i>						
% Asbestos	Below det lim	%	1	1/10/02	TRC	EPA 600R
Asbestos Type	None	%		1/10/02	TRC	EPA 600R

Reviewed by:

Validated by:

Quality Service/Quality Assurance Depts.

President/Laboratory Director

1/11/02



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Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 1/11/02
All TATs subject to laboratory approval
Min. 24-hour notification needed for rushes.
All samples are disposed of after 60 days unless otherwise instructed.

Report To: CDM Consultants, Inc.

111 Speer St.

Framingham, MA 01701

Project Mgr.: Kathleen Campbell

Invoice To:

Same

P.O. No.:

RQN: 3529

Project No.:

900

Site Name:

Turner Sax Property

Location:

Dorchester

State:

MA

Sampler(s):

Brian Miller

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 10=

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1=Debris X2= X3=

G=Grab C=Composite

Containers:

Analyses:

Notes:

Preservative

Type

Time:

Sample Id:

Lab Id:

AC1215 DEBRIS-1

12/26/01

G

XI

AC1216 DEBRIS-2

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AC1217 DEBRIS-3

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AC1218 DEBRIS-4

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AC1219 DEBRIS-5

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Received by:

Date:

Time:

Dr. Brian Miller

1/7/02

11:02

Bill Miller

1/7/02

1:20

Bill Miller

1/7/02

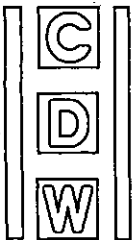
1:20

Condition upon Receipt: ☐ Iced ☒ Ambient ☐ 23 °C

Fax results when available to ()

E-mail results when available to b.miller@edwardsanalytical.com

SA



CDW CONSULTANTS, INC.

CIVIL & ENVIRONMENTAL ENGINEERS

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Phase II-Comprehensive Site Assessment

140 GRANITE AVENUE
DORCHESTER, MA

Prepared For

Metropolitan District Commission
20 Somerset Street
Boston, MA 02108

April 30, 2002

CDW Project # 900.00

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APPENDIX A: FIGURES

- Figure 1: Site Location Map
Figure 2: Site Plan with Sampling Locations
Figure 3: Groundwater Contour Map - December 2001
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- Table 1: Soil Headspace Results (December 10, 11 & 12, 2001)
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3.0 SUMMARY OF PREVIOUS SITE INVESTIGATIONS

Phase I Initial Site Investigation Summary

From November 2001 to February 2002, CDW conducted a Phase I Initial Site Investigation at the Site. A Limited Subsurface Investigation was conducted at the Site to determine the impacts of previous releases from former Site uses. That investigation consisted of the advancement of soil borings, the installation of monitoring wells, soil, groundwater, and building debris sampling, and a groundwater flow survey. All sampling locations are shown on Figure 2 in Appendix A.

In December 2001, CDW conducted a limited subsurface investigation which included the advancement of thirty soil borings using direct push technology. The borings were placed in a loose grid pattern across nearly the entire Site, and soil samples were collected continuously to depths of 10-12 feet, except for those borings where refusal was encountered. Four additional soil borings were advanced by the hollow-stem auger drilling method and completed as 2-inch monitoring wells. Soil samples were obtained by the split-spoon sampling method continuously and classified on-site. CDW's subcontractor, Soil Exploration Corp., completed the advancement of the soil borings and the installation of the monitoring wells. CDW's subcontractor, Spectrum Analytical, Inc. (Spectrum) completed the laboratory sample analyses.

Soil encountered was predominantly fine to medium sand, silt, peat, and cobbles. The top four feet was primarily fill material with some coal and brick pieces. Each monitoring well was constructed of a PVC screen and a solid PVC riser with a sand pack extending two feet above the well screen. A one foot bentonite seal followed by grout (where applicable) to grade was used above the sand pack. A protective roadway box was installed with a cement seal at grade. All four wells were set at a depth of 12 feet below the ground surface.

The well locations were based on proximity to potential sources of contamination, and to obtain a representative groundwater profile of the entire Site. Monitoring well CDW-1 was installed on the eastern portion of the Site to evaluate groundwater quality which is near the adjacent DEP listed site at 170 Granite Avenue. Monitoring wells CDW-2 and CDW-3

were installed in the central portion of the Site. Monitoring well CDW-4 was installed in the western portion of the site near a documented former UST. The monitoring wells were gauged for depth to groundwater and for the presence of NAPL. Bedrock was not encountered during drilling. Boring logs and well construction diagrams are included in Appendix C.

3.1 Soil Sampling and Analysis

Soil samples were collected from each boring, and field-screened with a photoionization detector (PID) using the headspace method. The PID is an instrument used to quantify volatile organic compounds (VOCs) with a detection limit of 1 part per million (ppm). The following methodology was employed for the headspace screening:

- Collect the sample up to one-half capacity in a clean glass jar.
- Cover the top of the jar with aluminum foil. Tightly place the jar cover on top of the aluminum foil sheet.
- Vigorously shake the jar content to allow for volatilization of the organic compounds into the air space.
- Allow the jar to sit for one minute at room temperature. Carefully remove the jar cover without removing the aluminum cover. Quickly insert the PID probe into the jar by forcing it through the aluminum cover.
- Read the maximum total PID level. Express the level in ppm as benzene equivalent.

Observed PID levels ranged from non-detectable to 15.5 ppm in the 2-4 foot depth sample from boring CDW-3, as shown in Table 1 in Appendix B.

As part of the Phase I subsurface investigation, representative soil samples from 8 borings were sent to the laboratory for analyses for EPH including PAHs, VPH, VOCs by EPA Method 8260, and total priority pollutant metals (PPM13). The samples were collected from depths ranging from 0 to 8 feet below the ground surface primarily within fill material. Four surficial soil samples from the unpaved area of the eastern portion of the Site were also submitted for Polychlorinated Biphenyls (PCBs), pesticides, and semi-volatile organic

compounds (SVOCs) by EPA Method 8270. Building debris samples were collected and submitted for PCBs, total lead, and asbestos. The samples were preserved by refrigeration prior to analysis, and delivered to the laboratory accompanied by an appropriate chain of custody record. CDW's subcontractor, Spectrum, completed the laboratory analyses.

A total of 8 existing monitoring wells (EMW-1 through EMW-8) installed by others were observed at the Site prior to the initiation of CDW's Phase I subsurface investigation. Most of these were gauged for NAPL and depth to groundwater in support of the groundwater flow survey.

3.2 Groundwater Sampling and Analysis

On December 26, 2001, CDW collected groundwater samples from monitoring wells CDW-1, CDW-2, CDW-3, and CDW-4. Prior to sample collection, a minimum of three well volumes were purged from each well. Groundwater samples were obtained with dedicated polyethylene bailers. The samples from all four wells were analyzed for EPH including PAHs, VPH, VOCs by EPA Method 8260, soluble PPM13, and total cyanide. In addition, blind duplicate samples from CDW-3 were submitted to the laboratory for analysis for QA/QC purposes. The samples were preserved by refrigeration and hydrochloric acid as appropriate prior to laboratory analysis, and delivered to the laboratory accompanied by an appropriate chain of custody record. CDW's subcontractor, Spectrum, completed the laboratory analyses.

On January 11, 2002, CDW measured water quality parameters including temperature, pH, and conductivity within the four newly installed monitoring wells and 6 existing wells. The pH ranged from 6.41 in monitoring well CDW-3 to 8.01 in well EMW-2. These results can be found in Table 3 in Appendix B.

3.3 Groundwater Gauging and Flow Direction

On January 4, 2002, CDW's subcontractor, Goldsmith, Prest, and Ringwall, Inc. of Harvard, MA, surveyed the monitoring well elevations to a reference datum point.

On December 26, 2001, the monitoring wells were gauged for depth to groundwater using an oil/water interface probe. The gauging data were converted to groundwater elevations, which are summarized on Table 5 in Appendix B. The groundwater was observed at depths ranging from approximately 3.5 to 9 feet below grade, and was determined to be flowing in an east/southeasterly direction. Additional monitoring wells previously installed by others were utilized, where possible, to obtain an accurate groundwater flow direction. A groundwater contour map from the Phase I Investigation is included as Figure 3 in Appendix A.

3.4 Previous Site Investigation Results

Soil Analytical Results

The results of field-screening reported slightly elevated PID levels in borings CDW-3, B-5 and B-21 within the top 6 feet of soil. Observed PID levels for samples from the remaining borings were below 5 ppm (parts per million). The results of soil headspace screening are presented in Table 1 in Appendix B.

EPH were detected in all eight of the soil samples analyzed, and six of the samples had detectable concentrations of PAHs. VPH were detected in six of the soil samples, and VOCs were detected in five of the samples analyzed. PPM13 were detected in all of the samples analyzed. PCBs were detected in three of the four surface soil samples analyzed. The results of the soil analysis from the subsurface investigation indicated that the concentrations of EPH in three soil samples and PAHs in four soil samples exceeded the applicable RCs. However, the PAH concentrations were attributed to the observed coal and /or ash in soil, and were therefore exempt from reporting requirements. The concentrations of several metals including cadmium, copper, lead, and zinc exceeded applicable RCs in several soil samples. PCBs from two of the surface soil samples exceeded applicable RCs, and one of the samples also exceeded the Imminent Hazard threshold of 10 ppm. None of the sample results for VPH or VOCs exceeded the applicable RCs.

Tables 7, 9, 11, and 13 in Appendix B present the results of the laboratory analyses of the soil samples. The complete laboratory reports and chain-of-custody records are included in

Appendix E.

Groundwater Analytical Results

Monitoring wells CDW-1, CDW-2, CDW-3 and CDW-4 were sampled on December 26, 2001, for EPH including target PAHs, VPH, VOCs by EPA Method 8260, soluble PPM13, and total cyanide. The results of the analysis revealed detectable concentrations of EPH, PAHs, soluble PPM13, total cyanide and one VOC. The concentrations of soluble lead and zinc in monitoring well CDW-1, and soluble zinc and total cyanide in monitoring well CDW-3 exceeded the applicable RCs. The groundwater sampling results are summarized in Table 15 in Appendix B. The complete laboratory reports and chain-of-custody records are included in Appendix E.

4.0 SOIL AND GROUNDWATER CLASSIFICATIONS

For the purpose of identifying the applicable Method 1 risk assessment (RA) standards, as defined in the MCP 310 CMR 40.0930 for the present and foreseeable future land uses of the Site relative to soil, the soil at the Site from 0 to 15 feet in paved areas is classified as S-2, as follows:

- The soils at the Site are potentially accessible,
- The intensity of use by adults and children is considered to be low, and
- The frequency of use by adults and children is considered to be high.

However, in order to evaluate both the current and foreseeable future risk of harm without assuming restrictions to Site uses, contaminant concentrations within all soil from depths of 0 to 15 feet below grade were compared to S-1 standards. The soil at a depth greater than 15 feet below grade is classified as S-3 for isolated subsurface soils.

For the purpose of identifying the applicable Method 1 RA standards, as defined in the MCP, 310 CMR 40.0930, for the present and foreseeable future land uses of the Site relative to groundwater, the groundwater categories are designated as GW-2 and GW-3, due to the following:

- The groundwater is not within a Zone II,
- The groundwater is not within an Interim Wellhead Protection Area,
- The groundwater is not within a Potentially Productive Aquifer,
- The groundwater is not within the Zone A of a Class A Surface Water Body,
- The groundwater is located within 500 feet of a public water supply system distribution pipeline,
- The groundwater is not within 500 feet of a private water supply well,
- The groundwater is less than 15 feet from the ground surface and in some areas less than 30 feet from a building, and
- The groundwater potentially discharges into surface water.

The results of the laboratory analytical testing of soil and groundwater samples were evaluated and compared with current Method 1 RA standards.

5.0 PHASE II SUBSURFACE INVESTIGATION

In March and April 2002, CDW conducted an additional subsurface investigation of the Site consisting of the advancement of soil borings, the installation of monitoring wells, soil and groundwater sampling, building debris sampling, in-situ permeability testing, and a groundwater flow survey. This investigation was completed to define the extent of soil and groundwater contamination at the Site and to provide additional data to satisfy the requirements of a Phase II report. This investigation is summarized in detail in the following section.

5.1 Soil Borings and Monitoring Well Installation

On March 25, 26, and 27, 2002, CDW advanced 20 soil borings to a maximum depth of 17.5 feet using both direct push and hollow stem auger drilling methods. Soil samples were collected continuously with the direct push method to maximum depths of 17 feet, except for those borings where refusal was encountered. Soil samples were collected at five foot intervals using the split-spoon sampling method in borings CDW-6, CDW-7, B-41 and B-42. Samples were collected continuously in boring CDW-5 using the split-spoon sampling method. Soil encountered was predominantly fine to medium sand, silt, peat, and cobbles. The top four feet was primarily fill material with some coal and brick pieces. Soil below 8 feet was primarily native glacial till or peat. After soil sampling, the borings were backfilled using native material. Based on drilling observations, competent bedrock was encountered at a depth of approximately 17.5 feet in boring B-42. Figure 2 in Appendix A shows the approximate locations of the soil borings. Soil boring logs are included in Appendix C.

Three of the borings (CDW-5, CDW-6, & CDW-7) were completed as 2-inch diameter PVC monitoring wells, and one (CDW-8) was completed as a 3/4-inch diameter monitoring well. CDW's subcontractor, Soil Exploration, Inc., completed the borings and installation of the monitoring wells. Each of the monitoring wells was developed by purging three well volumes. Monitoring well CDW-5 was installed on the southwestern portion of the Site near boring B-5. Monitoring well CDW-6 was installed near the former building in the vicinity of boring B-10. Both wells were installed to delineate the extent of PPM13. CDW-7 was installed in the south/central portion of the Site near boring B-21 to analyze for the extent EPH and PPM13 contamination in soil and groundwater in that area. CDW-8 was installed

on the eastern portion of the Site on a concrete pad and near a shed in that area, which was not previously investigated by CDW.

During the course of the Phase II subsurface investigation, three additional existing monitoring wells were discovered. These include wells EMW-9 and EMW-10 on the far eastern end of the Site, and well EMW-11 located on the central part of the Site near well CDW-3. Soil boring and monitoring well locations are shown on Figure 2 in Appendix A.

5.2 Soil Screening and Laboratory Analyses

Fourteen (14) soil samples from various depths ranging from 0-2 feet to 15-18 feet were submitted for laboratory analysis for EPH including PAHs, VPH including VOCs, and PPM13. The 5-7 foot sample from B-41 was submitted only for total lead. The 0-2 foot depth samples from borings B-32 through B-38 on the unpaved portion of the Site were submitted for analysis for PCBs and pesticides. The 2-4 foot depth samples from borings B-32 and B-33, which had the highest levels of PCBs, were subsequently submitted for PCBs and pesticides. Six (6) additional soil samples, obtained from CDW's Phase I investigation, from depths of 0-8 feet were subsequently submitted for PPM13. Two soil samples from the area of monitoring well CDW-3 were analyzed for free cyanide. Laboratory analysis methods were selected to investigate the extent of the previously detected contaminants at the Site. In addition, a blind duplicate sample from CDW-6 was submitted to the laboratory for EPH, PAHs, VPH, VOCs, and PPM13 for quality assurance/quality control (QA/QC) purposes. The samples were preserved by refrigeration prior to laboratory analysis and delivered to the laboratory accompanied by an appropriate chain of custody record.

5.3 Groundwater Gauging and Flow Direction

On April 1, 2002, the relative elevations of the top of 14 monitoring well casings were surveyed to an assumed datum point. The reference point used was monitoring well CDW-1, which was selected as elevation 6.63 feet.

The monitoring wells were gauged for depth to groundwater and NAPL using a water level indicator. No NAPL was detected in any of the wells. A petroleum sheen and odor was

observed on groundwater in well CDW-7. The gauging data was converted to groundwater elevations, which are summarized in Table 6 in Appendix B. The depth to groundwater ranged from 2.60 feet to 5.79 feet in the wells. The average depth to groundwater on the Site was calculated to be 4.67 feet. The groundwater was determined to be generally flowing to the southeast, which is consistent with the December 2001 groundwater flow survey. Some localized variations in groundwater flow direction were noted after completing the groundwater contour map. Groundwater contour maps from the surveys conducted in December 2001 and April 2002 are included as Figures 3 and 4 in Appendix A.

5.4 Building Debris Sampling

On April 1, 2002 CDW collected building debris samples from various types of debris on the Site for analysis for asbestos by polarized light microscopy (PLM). A total of ten (10) samples were collected from representative debris piles including floor tiles, soil, and rubble.

5.5 Groundwater Sampling

On April 1, 2002, CDW measured water quality parameters including temperature, pH, and conductivity within three (3) of the newly installed monitoring wells and seven (7) existing wells. The pH ranged from 6.63 in monitoring well CDW-3 to 7.65 in well CDW-5. These results can be found in Table 4 in Appendix B.

On April 1, 2002, groundwater samples were collected from each of the newly installed monitoring wells (CDW-5, CDW-6, CDW-7 & CDW-8) and six existing wells (CDW-1, CDW-2, CDW-3, EMW-5, EMW-6, and EMW-7), and submitted for laboratory analyses. A minimum of three well volumes was purged from each well and the groundwater was allowed to recharge prior to sample collection. Groundwater samples were obtained with dedicated polyethylene bailers. The samples from monitoring wells CDW-1, CDW-3, CDW-5, CDW-6, CDW-7, and CDW-8 were analyzed for EPH including target PAHs, VPH including VOCs by EPA Method 8260 and soluble PPM13. Samples from monitoring wells CDW-3, CDW-5, CDW-6, and CDW-7 were also analyzed for free cyanide. Samples from wells CDW-2, EMW-5, EMW-6, and EMW-7 were analyzed only for soluble PPM13. A

trip blank was also submitted to the laboratory for analysis for VPH and VOCs for quality assurance/quality control (QA/QC) purposes. Duplicate samples were submitted for EPH, VPH, PAHs, VOCs, PPM13, and free cyanide for quality assurance/quality control (QA/QC) purposes. CDW's subcontractor, Spectrum, completed the laboratory analyses. The samples were preserved by refrigeration prior to laboratory analysis and delivered to the laboratory accompanied by an appropriate chain of custody record.

5.6 In-Situ Permeability Test

On April 4, 2002, CDW conducted in-situ permeability testing in monitoring wells CDW-1, CDW-3, and CDW-4. The tests were conducted using an In-Situ MiniTroll brand pressure transducer and laptop computer. Depth to groundwater in the wells was measured prior to the commencement of the study. Each well was then quickly bailed and the pressure transducer was placed inside the well. The test was completed when the water level recovered at least 70% of its original volume.

The field data was analyzed using Hvorslev's method of analysis for permeability. The results of the in-situ permeability test in well CDW-1 indicated a groundwater flow rate of 0.216 feet/day. The test results for well CDW-4 indicated a groundwater flow rate of 0.442 feet/day. This recharge rate is characteristic of the predominantly sand and gravel fill found on the Site, and is indicative of a medium soil permeability. Soil permeability test calculations are included in Appendix D.

5.7 Phase II Soil and Groundwater Analysis Results

Soil Sample Analysis Results

Soil samples were collected during drilling at designated depths and screened with a PID using the headspace method. The headspace results of the soil samples ranged from non-detect to 67 ppm. The results of the headspace screening are summarized in Table 2 in Appendix B.

Nine (9) of the soil samples submitted for analysis for EPH reported levels above the method

detection limit, and four (4) the samples reported detectable levels of PAHs. Elevated concentrations of EPH were detected in one soil sample and PAHs in a separate sample. The concentrations of PAHs in the sample are likely attributable to the observed ash and coal in the sample. Twenty (20) of the soil samples were submitted for total PPM13. Fourteen (14) of these were obtained from the Phase II investigation in March 2002, and six (6) were samples that were obtained during the Phase I investigation in December 2001. Elevated concentrations of several metals including antimony, arsenic, cadmium, copper, lead, mercury, and zinc were detected in several soil samples. Two of the soil samples in the area of monitoring well CDW-3 were analyzed for free cyanide. No cyanide was detected in any of the samples analyzed. Eight (8) of the samples submitted for PCBs and pesticides reported levels above the method detection limit for PCBs. Elevated levels of PCBs were detected in four (4) of the samples analyzed. Low levels of VPH were detected in 4 of the samples analyzed and low levels of VOCs were detected in two of the samples. The results of the laboratory analyses are summarized in Tables 8, 10, 12, and 14 in Appendix B.

Groundwater Sample Analysis Results

Groundwater samples were collected from the four (4) newly installed monitoring wells as well as six (6) existing wells for laboratory analysis. Three (3) of the samples reported concentrations of EPH and one of the samples reported PAHs above the minimum detection limits. Only one VOC was detected above method detection limits in one monitoring well. Several soluble metals were detected above the method detection limits in all ten of the wells samples. Elevated concentrations of several soluble metals including cadmium, lead, nickel and zinc were detected in four wells. VPH and free cyanide were not detected in any of samples analyzed. The results of the EPH, PAH, VOC, soluble metals, and free cyanide groundwater analyses are summarized in Table 16 in Appendix B.

Building Debris Analysis Results

Ten (10) building debris samples were collected from representative areas of the Site on April 1, 2002. Asbestos was detected in two of the samples analyzed. Floor tiles found on the northwestern portion of the Site contained asbestos, and trace amounts of asbestos were detected in a soil and rubble sample. Table 18 in Appendix B presents the results of building

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debris analysis.

6.0 ENVIRONMENTAL IMPACT CHARACTERIZATION

The results of the soil and groundwater laboratory analytical testing were evaluated and compared with current MCP Method 1 Risk Characterization criteria and clean-up standards. As discussed in Section 4.0, groundwater classifications of GW-2 and GW-3, and soil classifications of S-1 and S-3 apply to the Site groundwater and soils.

6.1 Summary of Environmental Impact Characterization

Based on the results of headspace analyses, elevated VOC concentrations were detected in several of the soil samples. All of the elevated headspace concentrations were detected in soil samples obtained from the observed fill layer within the top 8 feet. The highest headspace VOC concentration was detected in the soil sample from B-46 at a depth of 4-8 feet.

The laboratory analyses of soil samples reported detectable concentrations of EPH, PAHs, PPM13, and PCBs exceeding applicable Method 1 RA standards in several soil samples. Concentrations of lead, and zinc were detected at concentrations exceeding applicable Method 1 standards in several soil samples at depths of 8 feet or less throughout most of the Site. Concentrations of arsenic above applicable Method 1 standards were detected in soil in two isolated locations on the Site. Concentrations of cadmium and silver exceeding applicable Method 1 standards were detected in shallow soil in the central portion of the Site. Mercury was detected above applicable Method 1 standards in one soil sample from the southwestern corner of the Site. Copper was detected at significantly elevated concentrations throughout the top eight feet of Site soil. EPH exceeding applicable Method 1 standards was detected in soil on the south/central portion of the Site. PCBs were detected at concentrations above applicable Method 1 standards and the imminent hazard threshold in the northeastern portion of the Site in surficial soils and at a depth of 2-4 feet. Soil contamination appeared to be located across nearly the entire Site at mostly shallow depths.

EPH, PAHs, VOCs, several soluble metals, and free cyanide were detected in groundwater on the Site. No NAPL was detected in any of the monitoring wells. The concentrations of one fraction of EPH in monitoring wells CDW-7 and CDW-8 exceeded applicable Method

1 standards. Soluble metals including lead, nickel, and zinc were detected at concentrations exceeding applicable Method 1 standards in monitoring well CDW-1. Soluble cadmium, nickel, and zinc were detected in monitoring well EMW-6 above applicable Method 1 standards. Soluble cadmium was reported in monitoring well CDW-8 at concentrations slightly above applicable Method 1 standards. Soluble zinc was detected in monitoring wells CDW-3 and EMW-7 at concentrations above applicable Method 1 standards. The concentration of soluble zinc in well EMW-7 was significantly elevated relative to zinc concentrations detected on other portions of the Site. The VOCs and PAHs detected did not exceed the applicable Method 1 standards.

6.2 Nature and Extent of Contamination

EPH contamination in soil appears primarily on the south/central portion of the Site, and may be related to former underground or above ground storage or surficial releases near that area of the Site. Heavy metals contamination appears extensively throughout the Site in soils from depths ranging from 0-8 feet below the ground surface. Elevated concentrations of lead are fairly widespread throughout the Site in the top eight feet of soil, with the highest levels in the central and western portions of the Site. Copper and zinc were also found quite extensively in the top eight feet of soil, and appeared in most of the boring locations where elevated lead was detected. Additionally, copper and zinc were almost always detected at elevated concentrations in soil together. The extent of PCB contamination in soil appears to be limited to the northeastern portion of the Site, and was detected in soil from 0-4 feet below grade. Isolated areas of arsenic and antimony contamination were also detected at the Site. Antimony was detected on the western portion of the Site in shallow soil, and cadmium contamination appears to be confined mainly to shallow soil in the central portion of the Site. Elevated concentrations of mercury were detected in one shallow sample only. Soil at depths below eight feet were visually characterized as native soil consisting of either glacial till or peat, and concentrations of contaminants were significantly lower or not detected.

Elevated concentrations of EPH were detected in groundwater in wells CDW-7 and CDW-8. Monitoring well CDW-7 is located on the south/central portion of the Site in the same area where elevated concentrations of EPH were detected in soil. Monitoring well CDW-8 is located on the eastern portion of the Site, and appears to be an isolated area of EPH

contamination. Soluble metals were detected on nearly every portion of the Site, however, the concentrations were the highest on the eastern portion of the Site. Elevated concentrations of soluble cadmium and nickel were detected in wells located only on the eastern portion of the Site. Due to the proximity of these wells to each other, the contaminants detected in groundwater appear to be related to the same source. Elevated concentrations of soluble zinc were detected mainly on the eastern portion of the Site with a second area of elevated concentrations on the south/central portion of the Site. Elevated concentrations of soluble lead were detected only in monitoring well CDW-1, which is located on the eastern side of the Site. In December 2001, elevated concentrations of total cyanide were detected in well CDW-3. Free cyanide was not detected in this well in April 2002. Cyanide was not detected in soil samples near this well, indicating that this may be an isolated area of contamination.

6.3 Contaminant Source Evaluation

Most of the metals and EPH detected in the Site soil appeared in the top eight feet of soil which is indicative of either contaminated fill material brought from off-site sources, or historical site uses. PAHs in Site soil and groundwater have been attributed to the abundant coal and ash observed. VPH and VOC compounds were also detected in shallow surface soils at relatively low or non-detect concentrations. The concentrations of EPH detected in borings B-21, B-26, B-46, and CDW-7 may be related to former underground storage of petroleum on the adjacent property near that area of the Site. The PCBs detected in surficial Site soil are likely related to previous site uses as PCBs were also detected in building debris. The EPH, VOCs, soluble PPM13, and cyanide detected in Site groundwater are likely from former Site uses as the Site formerly operated as a metal refinery and metal recycling facility. A continuing source of metal contamination to groundwater may exist due to elevated concentrations and leaching of several metals from soil. No definitive on-site source of petroleum contamination was identified in the south/central portion of the Site, however, underground and aboveground storage of petroleum previously existed adjacent and south of that area.

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An aboveground oil storage tank was identified on the southern boundary of the Site. Nearby samples collected for analysis do not indicate a release of petroleum in this portion of the Site at this time.

7.0 HYDROGEOLOGICAL CHARACTERISTICS

According to the U.S. Department of Agriculture Soil Survey Report of the Norfolk and Suffolk Counties, soils in the Site area are classified as very deep, nearly level, and poorly drained soils formed on highly decomposed organic material and silty alluvium on flood plains of and at outlets of the Charles and Neponset Rivers. The surficial geology generally consists of sand and gravel overlying coastal plain deposits.

A review of the 1983 Bedrock Geologic Map of Massachusetts shows that the Site lies within the Boston Basin Formation. Bedrock at the Site consists of the Roxbury Conglomerate, which consists of siltstone, argillite, and melephyre. No bedrock outcroppings were observed on the Site, but several outcroppings were observed to the north and west.

7.1 Overburden Geology and Hydrogeology

Soils encountered during drilling were predominantly fine to coarse sand and gravel, cobbles, and inorganic silt as compacted glacial till. The top eight feet was observed to be primarily fill material containing some coal, ash, and brick pieces. Native material consisting of glacial till and peat was observed below eight feet. Groundwater was observed during drilling between approximately 3 and 5 feet below grade. Bedrock was encountered in boring B-42 at approximately 17.5 feet below the ground surface. The predominant groundwater flow in the overburden is to the southeast towards the Neponset River. A geologic cross section is included as Figure 5 in Appendix A.

7.2 Wetlands and Floodplains

The closest surface water body is the Neponset River which is located approximately 150 feet to the south of the Site. Surface water runoff flows overland and into municipal storm drains on Granite Avenue and Hilltop Street. According to the Flood Insurance Rate Map, most of the Site is located within a Zone AE floodplain, which is classified as an area inundated by 100-year flooding. The northwestern portion of the Site is located within a Zone X area, which is defined as an area outside of the 100 year and 500 year floodplains. Surface water runoff flows west to Granite Avenue and to storm drains located on the Site.

8.0 FATE AND TRANSPORT EVALUATION

EPH, VPH, PPM13, VOCs, PAHs, and PCBs were detected in the Site soil. EPH, VOCs, PAHs, PPM13, and cyanide were detected in the groundwater at the Site. The groundwater flow direction at the Site is to the east/southeast. In this section, the fate and transport characteristics of the contaminants detected at the Site are presented. Also included in this section are identification and evaluation of likely contaminant migration pathways.

8.1 Environmental Fate Evaluation

EPH, VOCs, PAHs, PPM13, and cyanide were detected in the groundwater at the Site. Due to the minimal groundwater elevation change throughout the Site, transport of contaminants in groundwater is expected to be limited. However, the proximity to the Neponset River and tidal fluctuations may have an impact on the movement of contaminants. Additionally, the elevated concentrations of lead, zinc and copper in soil may be acting as a continuing source of contamination of these compounds to groundwater.

TPH, EPH, VPH, PAHs, VOCs, metals, and PCBs were detected in soil samples throughout the Site. Upper concentrations limits (UCLs) were exceeded for lead in eight (8) soil samples and for zinc in five (5) soil samples. Soil samples were obtained from depths ranging from 0 to 17.5 feet below the ground surface. Most of the samples analyzed were from the observed fill layer from 0-8 feet. The mobility, leaching potential, and volatility of EPH and metals in sand, gravel and silt is low. Therefore, these compounds are expected to remain relatively immobile. Metals are slightly soluble in groundwater and are the result of various industrial processes or the presence of urban fill material. The mobility, leaching potential, and volatility of VPH, VOCs and PAHs in sand, gravel and silt is high. The persistence of EPH and metals in sand, gravel and silt is high, and persistence of VPH, VOCs, and PAHs is low. PCBs bind strongly to soil sediments but can be carried long distances when airborne. In water, only a small amount of PCBs dissolve, and the remainder are bound to sediments. PCBs do not typically travel deep into soil with rainwater. Therefore, the mobility, leaching potential and volatility of PCBs in soil is low, and the persistence is high. See Table 19 in Appendix B for the mobility and persistence of the

detected contaminants, which were determined to be contaminants of concern for the risk characterization based on chemical and physical properties.

Potential nearby sources of contamination (underground and aboveground storage tanks) appear to have been removed. However, on-site contaminated soil may continue to provide a source for soluble metals in groundwater. Therefore, the resulting contamination at the Site is residual and has a finite quantity. Based on the characteristics of the contaminants detected, migration of contamination is not expected to be significant. The characteristics of substantial release migration have not been met as soil permeability rates on the Site were calculated at an average of 120 feet/year. The Neponset River is located 150 feet south of the southern Site boundary. Based on the observed groundwater flow direction, groundwater from the Site and immediate vicinity discharges into the Neponset River.

8.2 Migration Pathway Evaluation

Contamination at the Site is located in groundwater at a depth of approximately 4.5 feet below the ground surface. Approximately $\frac{3}{4}$ of the Site is either paved, covered with concrete, or covered by the former building foundation. The remainder of the Site is unpaved. Potential human exposure to contamination may occur from contact of surficial soils in the unpaved areas, and in the paved areas if subsurface excavation is performed; for example, for utility work or site redevelopment.

Underground utilities at the Site may represent potential migration pathways for groundwater due to the shallow depth of groundwater at approximately 4.5 feet. Underground utilities at the Site include storm drain lines, a sewer line on the southern portion of the Site, and water lines. The depth to groundwater ranges from approximately 2.6 feet to 8.9 feet due to seasonal and tidal fluctuations.

The Neponset River is located approximately 150 feet south of the Site. Based on the distance and downgradient location of the river, it is considered be a potential receptor for groundwater. An area of critical environmental concern (ACEC) extends from the southern boundary of the Site, south across the Neponset River. No estimated habitat of rare wetlands wildlife, certified vernal pools, priority sites of rare species habitats, or exemplary natural

communities are located within the Site vicinity. There are no public water supply wells within one-half mile of the Site. There are no private water supply wells within 500 feet of the Site.

No other agricultural activities or other food chain pathways have been identified in the Site vicinity. No other migration pathways have been identified at this time.

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mercury

nickel

silver

zinc

PCBs

Groundwater

C9-C18 aliphatics

C19-C36 aliphatics

C11-C22 aromatics

antimony

cadmium

copper

lead

nickel

zinc

2.0 CONTAMINANT CHARACTERISTICS

The characteristics of the contaminants were evaluated. The VPH compounds detected at the Site are generally soluble in water, and tend to degrade in the presence of oxygen and natural bacterial colonies. Due to their inherent volatility, VPH compounds are likely to partition from soils and groundwater into a gaseous state. Potential human exposure to VPH may occur as a result of direct contact, or by inhaling vapors which migrate through utility conduits or disturbed soil. VPH compounds are often present as a result of petroleum handling.

The EPH and PAH compounds detected at the Site are somewhat soluble in water. Larger molecular weight EPH and PAH compounds will often be retained within the soil matrix, with the lighter EPH and PAH compounds volatilizing or dissolving into groundwater. Potential human exposure to EPH and PAHs may occur if directly contacted or if subsurface excavation is performed, for example, for utility work. EPHs are often detected as a result of petroleum releases. PAH compounds can be found as by-products of the combustion process and/or releases of waste oils, heavy grade fuel oil, and coal.

PCBs are slightly soluble in groundwater and are probably present in Site soil due to previous site uses. PCBs were also detected in building debris. Potential human exposure to the PCBs could occur when coming into contact with shallow soil at the Site.

Metals are slightly soluble in groundwater and are the result of various industrial processes or the presence of urban fill material. Potential human exposure to metals contamination may occur if directly contacted, or if subsurface excavation is performed, for example, for utility work. The mobility, leaching potential, and volatility of the contaminants of concern at the Site based on their chemical and physical properties is presented in Table 19 in Appendix B.

4.0 EXPOSURE PATHWAYS AND RECEPTORS

The Site is partially unpaved, therefore, soil contamination at the Site is potentially accessible. Exposure to the contaminants of concern in Site soil can occur at the Site by direct contact or during utility related or similar soil excavation. There is no water supply well on the Site and the surrounding area is serviced by a public water supply system. There are no public water supply wells within one-half mile of the Site. There are no private water supply wells within 500 feet of the Site. Migration pathways identified for the Site include utility trenches, natural groundwater and surface water flow paths, and stormwater runoff. Based on the fate and transport analysis presented in Section 8.0, potential impact from direct groundwater consumption is expected to be minimal. There is, however, potential human dermal exposure to groundwater from Site monitoring wells.

The depth to groundwater at the Site currently ranges from approximately 2.60 feet to 5.79 feet in the wells. No occupied structures are currently located on-site. Buildings are located downgradient from the Site. Based on the observed concentrations of the contaminants of concern and the fate and transport analysis, impact to off-site media is possible through groundwater transport. Human exposure to contaminants is possible through disturbance of Site soil and groundwater during excavation work.

An area of critical environmental concern (ACEC) extends from the southern boundary of the Site, south across the Neponset River. The nearest surface water body is located approximately 150 feet south of the Site. Based on the distance and downgradient location of the river, it is considered be a potential receptor for the ultimate discharge of groundwater. No estimated habitat of rare wetlands wildlife, certified vernal pools, priority sites of rare species habitats, or exemplary natural communities are located within the Site vicinity. No exposure through the food chain pathway is anticipated because the Site is not used for agricultural purposes.

Human receptors at the Site for current and future use may include adult and child residents, full-time workers, visitors using the Site for recreation, delivery personnel, construction workers, and trespassers. The potential human exposure pathways to soil include ingestion of soil or biota and dermal exposure during direct contact with the soil or during excavation work. The potential human exposure pathways to groundwater consist of ingestion, inhalation, and absorption. The exposure points are identified as:

- Surface and subsurface soils throughout the Site, and
- Groundwater monitoring wells.

Environmental receptors may include flora within the vegetated areas of the surroundings, and flora and fauna located within the Area of Critical Environmental Concern extending from the southern boundary of the Site across the Neponset River. Wildlife is currently not present on the Site, but some animals could potentially relocate to the Site. There are no species of special concern identified on the Site. According to the 2000-2001 Natural Heritage & Endangered Species Program's Natural Heritage Atlas, the Site is not located within estimated habitats of rare wildlife or priority habitats of rare species.

5.0 METHOD 1 AND 2 RISK ASSESSMENT

5.1 Exposure Point Concentrations

For the EPH and VPH hydrocarbon ranges detected at the Site, naphthalene, and some metals, exposure point concentrations in Site soil were estimated by averaging the observed concentrations within soil categories. For samples with no detectable levels of a contaminant of concern, a value of one-half the method detection limit was used when calculating the average. For field duplicate samples, the average concentration of each compound was used in calculating the overall average. Exposure point concentrations of antimony, copper, lead, silver, zinc, and PCBs in soil and all compounds in groundwater were estimated conservatively by using the highest detected concentration of each compound as the exposure point concentration for that compound. One soil sample was collected at a depth greater than 15 feet. This sample was evaluated as a separate exposure point. The exposure point concentrations for Site soil and groundwater are presented in Tables 20 and 21 in Appendix B, respectively.

5.2 Development of Proposed Method 1 GW-2 Standard for Copper

The proposed MCP GW-2 Standard would result in an indoor air concentration which does not pose a significant risk of harm to health, public welfare, or the environment. Since metals in groundwater are not considered a threat to indoor air, no GW-2 standards have been calculated by the DEP for metals, and no GW-2 standard therefore applies to copper in groundwater at the Site.

5.3 Development of Proposed Method 1 GW-3 Standard for Copper

MCP GW-3 standards are designed to protect against migration of compounds of concern into surface waters and wetlands. Determination of an MCP GW-3 standard is accomplished using the steps discussed below.

Identification of Water Quality Criteria

The Ambient Water Quality Criteria for copper were identified in the U.S. Environmental Protection Agency's Quality Criteria for Water of 1986, promulgated on May 1, 1987. Freshwater acute and chronic criteria and marine acute criteria of 18, 12, and 2.9 ug/l, respectively were identified. The freshwater criteria are hardness dependent, so reasonable values were selected. The lowest of these values is multiplied by a factor of 10 to determine the GW-3 standard, yielding a value for copper of 29 ug/l..

Comparison to Ceiling Concentration

No adjustment to a ceiling concentration of 50,000 ug/l is necessary, as the proposed value is not greater than 50,000 ug/l.

Selection of Proposed MCP GW-3 Standard

The proposed GW-3 standard for copper is therefore 30 ug/l, rounded to one significant figure.

5.4 Calculation of Method 1 Soil Standards for Copper

Copper was detected in site soils during CDW's Phase I and Phase II investigations. No Method 1 standards have been promulgated for copper. CDW calculated Method 1 soil standards for copper using Method 2 in accordance with 310 CMR 40.0984. The following equation was used to calculate a non-cancerous risk-based concentration:

$$[\text{OHM}] = (\text{RfD}_{\text{chronic}} \times 0.2 \times C) / ((\text{RAF}_{\text{oral}} \times \text{NADSIR}) + (\text{RAF}_{\text{dermal}} \times \text{NADSCR}))$$

where:

[OHM]	=	the concentration of oil and/or hazardous material being derived in units: mg/kg
RfD	=	0.04 - the chronic Reference Dose for copper, from the US EPA Region III table of Risk Based Concentrations in units: (mg/kg-day)
C	=	10 mg/kg conversion factor
RAF _{oral}	=	1.0 - the most conservative Relative Absorption Factor for oral exposure, dimensionless
NADSIR	=	Normalized Average Daily Soil Ingestion Rate, in units of mg/kg-day

Using the NADSIR and NADSCR values given in Table 5.1 of the Background Documentation for the Development of MCP Numerical Standards, published by the DEP in April 1994, non-cancerous concentrations for copper of 300 milligrams per kilogram (mg/kg), 500 mg/kg, and 200 mg/kg were calculated for S-1, S-2, and S-3 soils, respectively. These concentrations were compared to a leaching-based concentration calculated as follows:

$$\text{DAF}_{\text{OHM}} = (6270 \times H_{\text{OHM}}) + (0.166 \times \text{Koc}_{\text{OHM}})$$

$$[\text{OHM}]_{\text{soil}} = \text{DAF}_{\text{OHM}} \times [\text{OHM}]_{\text{gw}} \times C$$

where:

DAF _{OHM}	=	The Dilution/Attenuation Factor calculated for the oil or hazardous material
H _{OHM}	=	The Henry's Law Constant for the oil or hazardous material, in units of atm-m ³ /mol
Koc _{OHM}	=	The organic carbon partition coefficient for the oil or hazardous material in units mg/g
[OHM] _{soil}	=	The leaching-based concentration in units mg/kg
[OHM] _{gw}	=	The target concentration of the oil or hazardous material in units of ug/L
C	=	Units Conversion factor, 0.001 mg/ug

Copper is an inorganic compound with limited volatility and solubility. Therefore, no Henry's Law constant or Koc values have been published for copper, and a leaching-based concentration cannot be calculated. A concentration of copper in soil which would cause an Excess Lifetime Cancer Risk of one-in-one million also cannot be calculated, since no cancer slope factor could be identified for copper.

The non-cancerous concentrations were therefore carried forward into the next step, which involved comparing them to a Practical Quantitation Limit (PQL) and a background

concentration. The highest method detection limit used by the laboratory for any sample submitted as part of Phase I or Phase II field activities, 1.36 mg/kg, was adopted as the PQL in order to be conservative. The background concentration for copper in urban soil published by the DEP in Table 2.1 of the Guidance for Disposal Site Risk Characterization (July 1995) is 38 mg/kg. The larger of the three available numbers, the non-cancerous concentration, was therefore brought forward into the last step involved in the standards derivation.

The last step involved comparing the non-cancerous concentrations of 300 mg/kg, 500 mg/kg, and 200 mg/kg with ceiling concentrations obtained from the DEP's Background Documentation for the Development of MCP Numerical Standards (1994). The vapor pressure (0 for copper) and Odor Recognition Threshold (only published for organic compounds) for a compound were used to determine ceiling concentrations within the table. Ceiling concentrations of 1,000 mg/kg, 2,500 mg/kg, and 5,000 mg/kg were therefore selected for S-1, S-2, and S-3 soils, respectively. The lower of these two values (non-cancerous versus ceiling concentrations) is then adopted as the Method 1 standard. The S-1/GW-2 and GW-3 standard for copper is therefore 300 mg/kg, the S-2/GW-2 and GW-3 standard for copper is 500 mg/kg, and the S-3/GW-2 and GW-3 standard for copper is 200 mg/kg.

5.5 Public Health, Public Welfare, and the Environment

The MCP Method 1 RA criteria is used to identify generally the current and future risk of harm to human health from exposures to soil and groundwater without applying site specific information, in accordance with 310 CMR 40.0942 (1)(b)(1). The MCP Method 1 RA standards for soil and groundwater were applied to the laboratory results of subsurface soil and groundwater samples at the Site. For the purpose of identifying the applicable Method 1 RA standards for groundwater and soil, the groundwater category was designated as GW-2 and GW-3. The soils at the Site have been classified as follows: S-1 for depths between 0 and 15 feet and S-3 for depths greater than 15 feet. The S-2 soil classification was not used because this classification assumes exposure restrictions to receptors (i.e., pavement, fencing, etc.).

Exposure point concentrations (EPCs) were calculated for some of the COC detected in Site soil, where appropriate, by averaging laboratory analytical results within soil categories. The remaining COC in Site soil were evaluated more conservatively by using the highest detected value as the exposure point concentration. The soil samples that were collected from depths from 0 to 15 feet were compared to Method 1 S-1/GW-2 and S-1/GW-3 standards. The samples that were collected from depths greater than 15 feet were compared to Method 1 S-3/GW-2 and S-3/GW-3 standards. As shown in Table 20 in Appendix B, the exposure point concentrations of antimony, copper, lead, silver, zinc, and PCBs exceed one or both of the applicable Method 1 standards. None of the other exposure point concentrations for soil exceeded their applicable Method 1 risk assessment standards.

The MCP Method 1 risk assessment standards for groundwater classified as GW-2 and GW-3 were applied to the laboratory results of all groundwater samples at the Site. Exposure point concentrations for compounds detected in groundwater are the highest concentrations detected for each compound. Each groundwater monitoring well location is considered a separate exposure point. Table 21 in Appendix B compares the maximum concentrations of each of the contaminants detected in the groundwater with the applicable Method 1 RA groundwater standards.

The exposure point concentrations of C9-C18 aliphatics exceeds the GW-2 standard. The exposure point concentrations of cadmium, copper, lead, nickel, and zinc for Site groundwater exceed the GW-3 standards. None of the concentrations of the other COCs exceed any applicable Method 1 risk assessment standards.

Due to the exposure point concentrations which exceed Method 1 risk assessment standards for soil and groundwater, a condition of no significant risk of harm to human health, public welfare, and the environment cannot be achieved at this time, as defined by the MCP. Based upon this information, further response actions will be needed in order to achieve a condition of no significant risk to human health, welfare, and the environment at the Site.

5.6 Public Safety

The risk of harm to safety was evaluated as part of this investigation. The conditions at the disposal Site related to the release of oil and/or hazardous materials do not currently and will not in the foreseeable future pose a threat of physical harm or bodily injury to people. None of the following currently exist at the Site:

- the presence of rusted or corroded drums or containers, open pits, lagoons or other dangerous structures;
- any threat of fire or explosion, including the presence of explosive vapors resulting from a release of oil and/or hazardous material; and
- any uncontained materials which exhibit the characteristics of corrosivity, reactivity or flammability described at 310 CMR 40.0347.

There are currently numerous piles of building debris at the Site which would potentially be dangerous if they were not removed. CDW is of the professional opinion that a condition of no significant risk of harm to safety will exist at the disposal Site after the construction debris is removed.

5.7 Uncertainty Analysis

A substantial degree of uncertainty can exist in a risk assessment of environmental contaminants due to sampling and analysis methods. In addition, seasonal fluctuations in groundwater concentrations and geochemical reactions can significantly influence the results of site investigation data. The use of average concentrations is appropriate to represent the most likely exposure scenario to calculate dose, and to represent exposure probability in order to balance some of the inherent uncertainty in sampling and analysis methods. The use of the maximum concentration detected at the Site for the exposure point concentration of other analytes was intended to avoid uncertainty in a mean calculated from a small sample size.

Exposure assessment depends to a great degree upon default parameters. Uncertainty can exist where exposure dynamics (i.e., intake parameters, biological clearance times) vary from individual to individual. In addition, median outdoor temperature and other atmospheric conditions primarily control the amount of skin surface area that may be exposed to absorption; these conditions cannot be readily accounted for in a study of long-term cumulative effects of exposure. The use of MCP Method 1 risk assessment standards was intended to account for these uncertainties by evaluating the Site risk in the most conservative manner (i.e., worst case models).

6.0 CONCLUSIONS

CDW conducted a Phase II Comprehensive Site Assessment of the property known as 140 Granite Avenue in Dorchester, Massachusetts. CDW completed a previous subsurface investigation in November 2001 through February 2002, which included soil and groundwater sampling and analysis, demolition debris sampling, and a groundwater flow survey. A Phase I Initial Site Investigation report was completed by CDW in February 2002. In March and April 2002, CDW conducted an additional subsurface investigation consisting of the installation and sampling of four groundwater monitoring wells, additional soil sampling, and analysis of groundwater in several existing monitoring wells. In-situ permeability tests were conducted on monitoring wells CDW-1 and CDW-4 in April 2002.

Soil samples submitted for analysis reported levels of EPH, PAHs, VOCs, PCBs, and total PPM13 above the method detection limits. Exposure point concentrations for copper, lead, silver, zinc, and PCBs exceeded the applicable Method 1 Risk Assessment standards. The soil contaminants are primarily located within the top 8 feet of fill material. The detected levels of PCBs in some Site soil samples also exceed the Imminent Hazard threshold of 10 ppm. This condition poses no current danger as the Site is securely fenced, but this condition must be evaluated if there are anticipated changes in Site use.

Groundwater samples submitted for analysis reported levels of EPH, PAHs, VOCs, and soluble metals above the method detection limits. Exposure point concentrations for C9-C18 aliphatics, cadmium, copper, lead, nickel, and zinc were found to exceed the applicable Method 1 RA standards. The source of heavy metals in groundwater has not been identified.

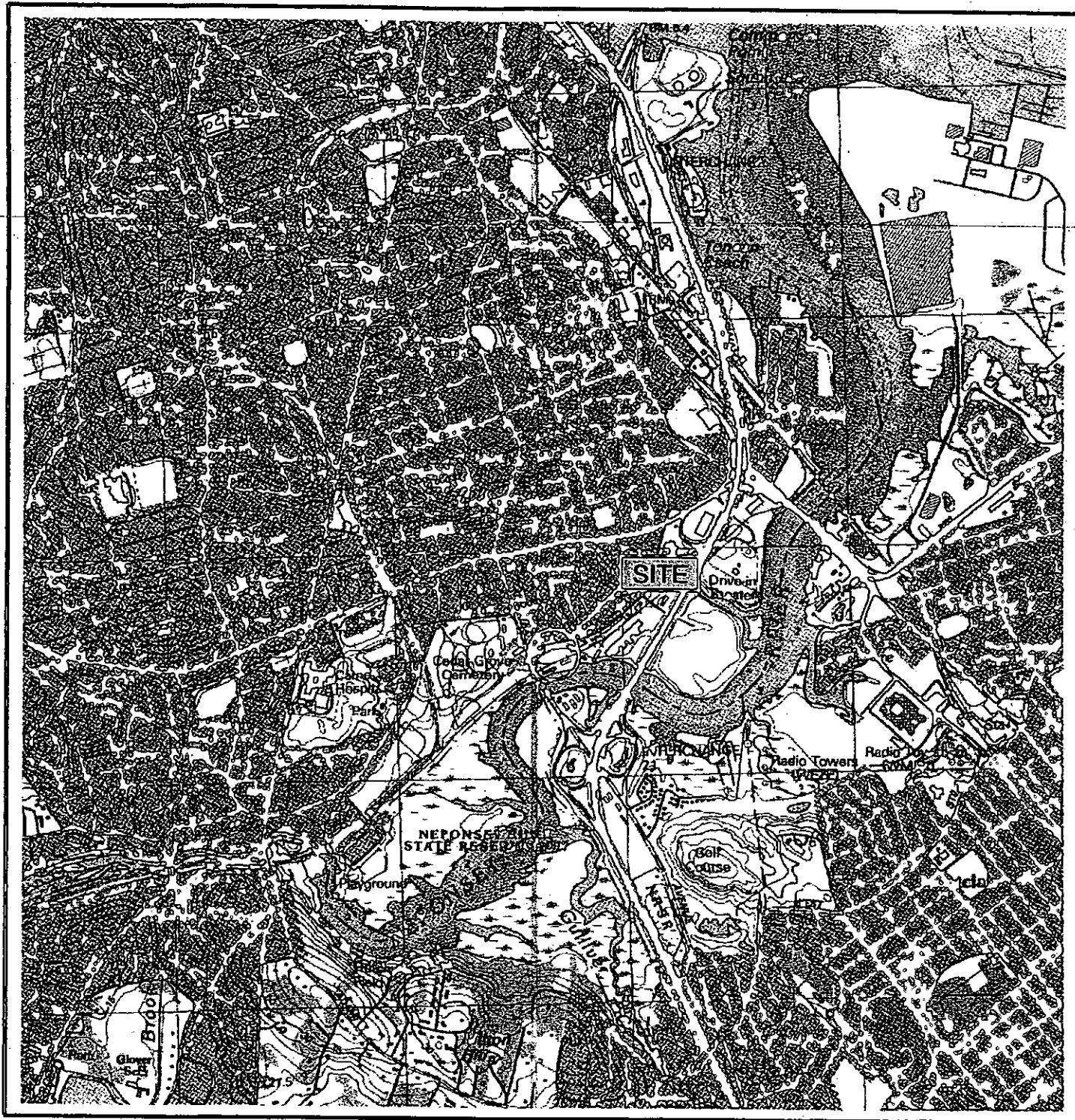
Due to the exposure point concentrations of numerous contaminants of concern in Site soil and groundwater which exceed Method 1 Risk Assessment standards, a condition of no significant risk of harm to human health, public welfare, and the environment cannot be achieved at this time, based on a Method 1 Risk Assessment. The results of this Phase II study indicate that the soil and groundwater contamination above Method 1 RA standards will require further assessment and/or response actions prior to achieving regulatory closure.

7.0 LIMITATIONS

The conclusions are limited to the information available at the time of the investigation and the scope of services as defined. Limited subsurface investigations were performed on this Site; therefore, limited conclusions can be made relative to subsurface conditions. No other conclusions, interpretations, or recommendations are contained or implied in this report other than those expressed. Also, CDW makes no warranty, expressed or implied, on the accuracy of the work and information completed by others and upon which CDW has relied to prepare this report. No other use of this report is warranted without the written consent of CDW Consultants, Inc.

APPENDIX A

FIGURES



CDW CONSULTANTS, INC.

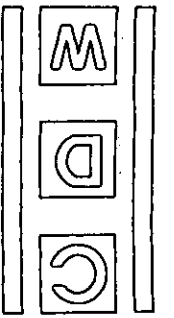
SITE LOCATION MAP
140 GRANITE AVENUE
DORCHESTER, MA

FIGURE 1

Source: USGS Boston South MA Quadrangle (1987)

Project No.: 900.00
Scale: 1:25,000





CDW CONSULTANTS, INC.

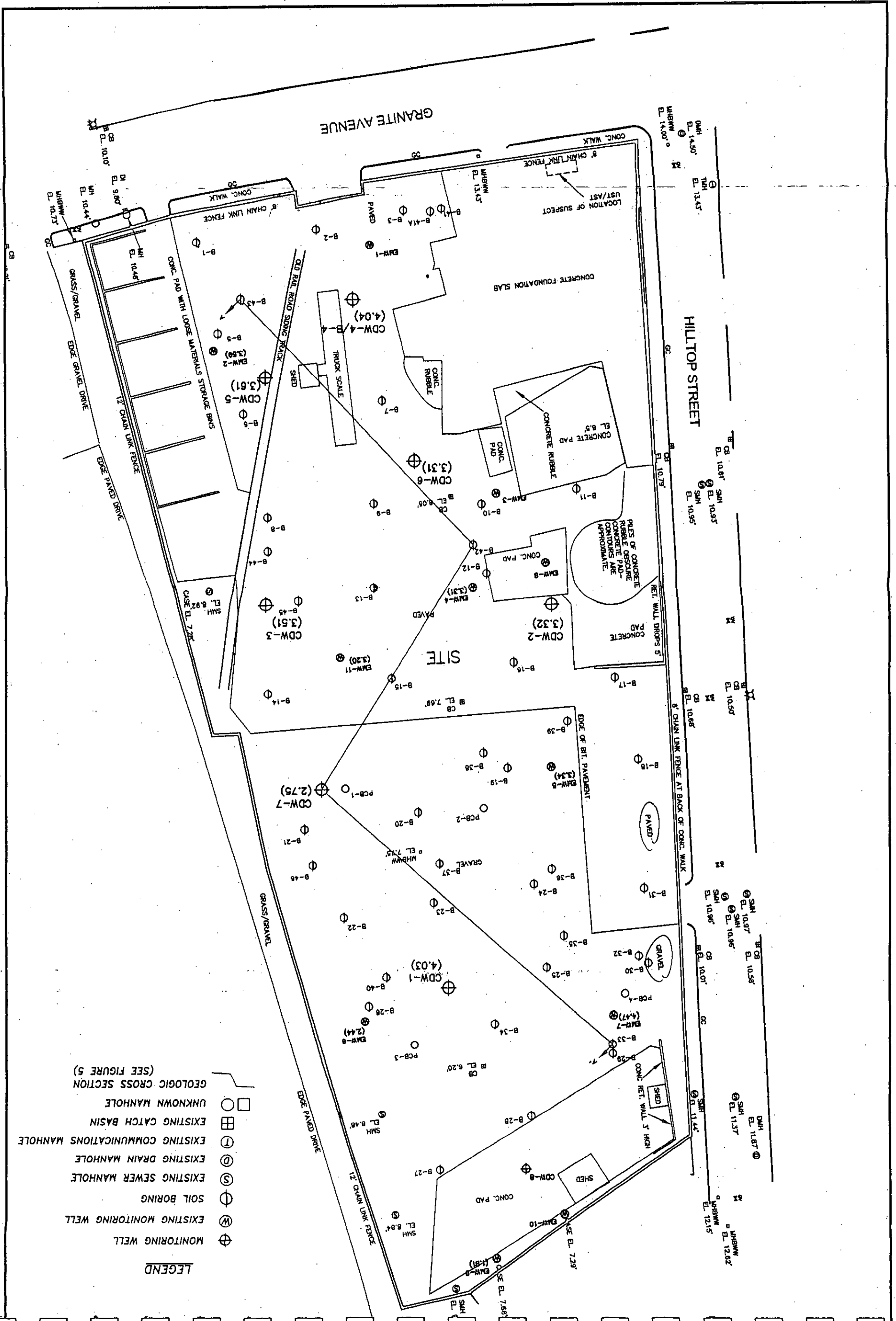
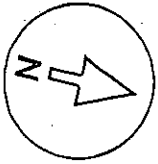
SITE PLAN WITH SAMPLING LOCATIONS

140 GRANITE AVENUE
DORCHESTER, MA

FIGURE 2

SOURCE: CITY OF BOSTON, ASSESSORS
COLUMBIA DRIVE, BY GPR INC. JANUARY 2002

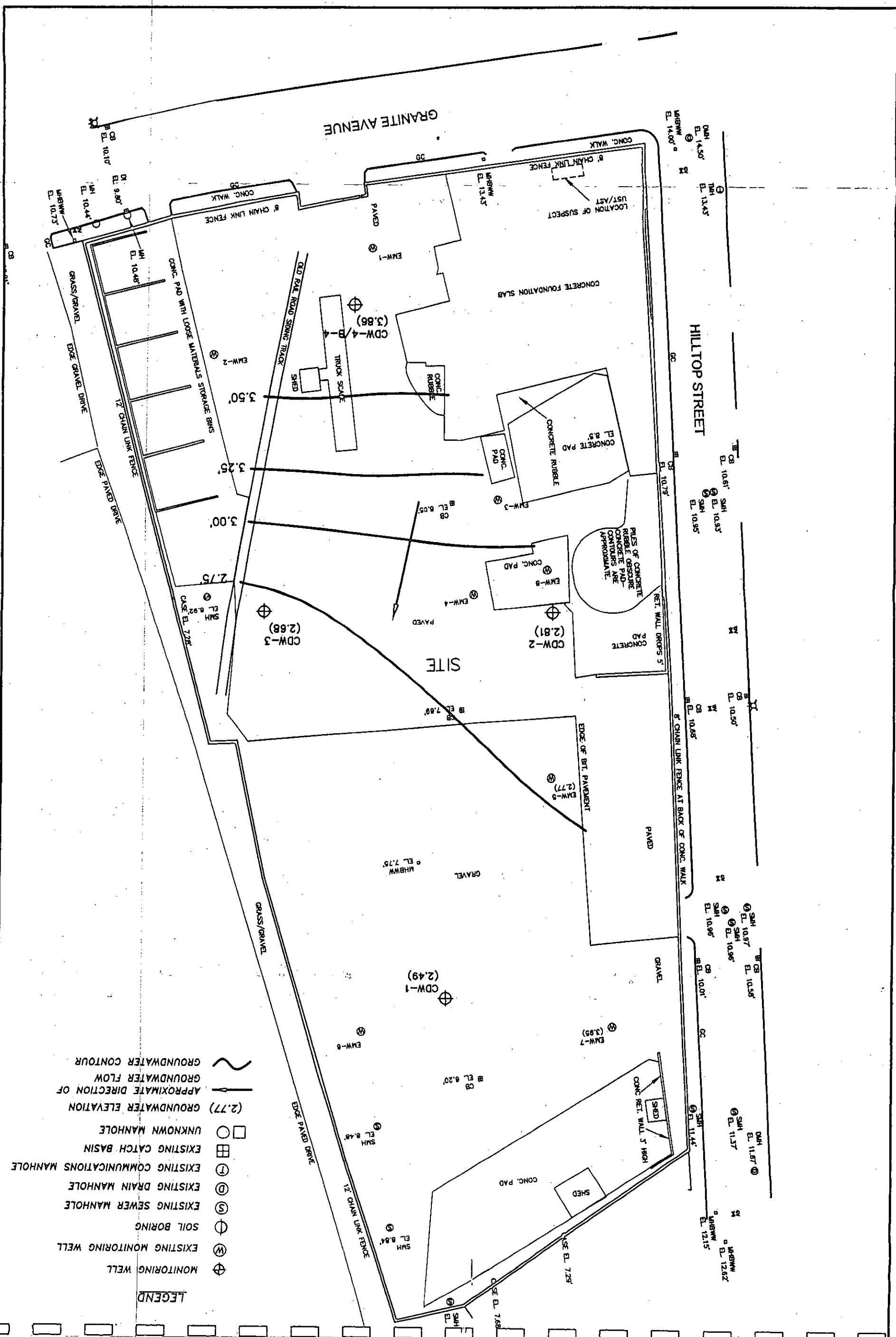
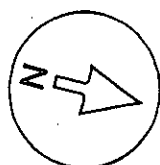
Project No. 900.00
Scale: 1:50



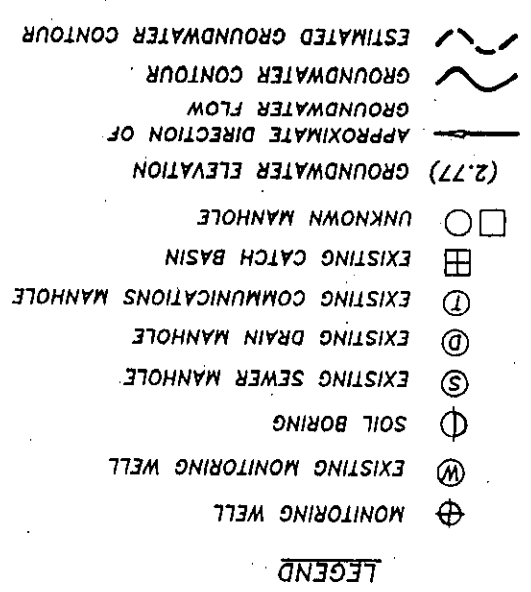
- LEGEND**
- MONITORING WELL
 - EXISTING MONITORING WELL
 - SOIL BORING
 - EXISTING SEWER MANHOLE
 - EXISTING DRAIN MANHOLE
 - EXISTING COMMUNICATIONS MANHOLE
 - EXISTING CATCH BASIN
 - UNKNOWN MANHOLE
 - GEOLOGIC CROSS SECTION (SEE FIGURE 5)

GROUNDWATER CONTOUR MAP - DECEMBER 26, 2001
140 GRANITE AVENUE
DORCHESTER, MA
FIGURE 3

CDW CONSULTANTS, INC.



CDW CONSULTANTS, INC.



APPENDIX B

TABLES

CDW CONSULTANTS, INC.

TABLE 1
SOIL HEADSPACE RESULTS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
December 10, 11 and 12, 2001

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
CDW-1/S-1	0-2	<1
CDW-1/S-2	2-4	<1
CDW-1/S-3	4-6	<1
CDW-1/S-4	6-8	<1
CDW-1/S-5	8-10	1.1
CDW-2/S-1	0-2	<1
CDW-2/S-2	2-4	<1
CDW-2/S-3	4-6	<1
CDW-2/S-4	6-8	<1
CDW-2/S-5	8-10	<1
CDW-3/S-1	0-2	<1
CDW-3/S-2*	2-4	15.5
CDW-3/S-3	4-6	<1
CDW-3/S-4	6-8	<1
CDW-3/S-5	8-10	<1
B-4/S-1 (CDW-4)	0-4	<1
B-4/S-2 (CDW-4)	4-8	<1
B-4/S-3 (CDW-4)	8-12	<1
B-1/S-1	0-4	<1
B-1/S-2	4-8	<1
B-1/S-3	8-12	<1
B-2/S-1	0-4	<1
B-2/S-2	4-8	<1
B-2/S-3	8-12	<1
B-3/S-1*	0-4	<1
B-3/S-2	4-8	<1
B-3/S-3	4-8	2.2
B-4/S-1	4-8	<1
B-4/S-2	4-8	<1
B-4/S-3	4-8	<1

TABLE 1 (continued)
SOIL HEADSPACE RESULTS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
December 10, 11 and 12, 2001

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
B-5/S-1	0-4	<1
B-5/S-2*	4-6.5	11.5
B-6/S-1	0-4	<1
B-6/S-2	4-8	<1
B-7/S-1	0-4	<1
B-7/S-2	4-8	<1
B-7/S-3	8-12	<1
B-8/S-1	0-4	<1
B-8/S-2*	4-8	1.5
B-8/S-3	8-12	<1
B-9/S-1	0-4	<1
B-9/S-2	4-8	<1
B-9/S-3	8-12	<1
B-10/S-1*	0-4	<1
B-10/S-2	4-8	<1
B-10/S-3	8-12	<1
B-11/S-1	0-4	<1
B-11/S-2	4-8	<1
B-11/S-3	8-12	<1
B-12/S-1	0-4	1.1
B-12/S-2	4-8	<1
B-12/S-3	8-12	<1
B-13/S-1	0-4	<1
B-13/S-2	4-8	<1
B-13/S-3	8-12	<1
B-14/S-1	0-4	<1
B-14/S-2	4-8	<1
B-14/S-3	8-12	<1
B-15/S-1	0-4	<1
B-15/S-2	4-8	<1
B-15/S-3	8-12	<1

TABLE 1 (continued)
SOIL HEADSPACE RESULTS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
December 10, 11 and 12, 2001

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
B-16/S-1	0-4	<1
B-16/S-2	4-7	<1
B-17/S-1	0-4	<1
B-17/S-2	4-5	1.7
B-18/S-1	0-4	<1
B-18/S-2	4-6	<1
B-19/S-1*	0-4	<1
B-19/S-2	4-8	<1
B-19/S-3	8-11	<1
B-20/S-1	0-4	2.6
B-20/S-2	4-6	3.3
B-21/S-1*	0-4	8.3
B-21/S-2	4-8	5
B-21/S-3	8-12	3.5
B-22/S-1	0-4	<1
B-22/S-2	4-8	<1
B-23/S-1	0-4	<1
B-23/S-2	4-8	1.9
B-23/S-3	8-12	<1
B-24/S-1	0-4	<1
B-24/S-2	4-8	<1
B-24/S-3	8-12	<1
B-25/S-1	0-4	<1
B-25/S-2	4-8	<1
B-25/S-3	8-8.5	<1
B-26/S-1	0-4	<1
B-26/S-2*	4-8	<1
B-26/S-3	8-12	1.3
B-27/S-1	0-4	<1
B-27/S-2	4-8	<1
B-27/S-3	8-12	<1

TABLE 1 (continued)
SOIL HEADSPACE RESULTS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
December 10, 11 and 12, 2001

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
B-28/S-1	0-4	<1
B-28/S-2	4-8	<1
B-28/S-3	8-12	<1
B-29/S-1	0-3	<1
B-30/S-1	0-2	<1
B-30/S-2	2-4	1.3
B-30/S-3	4-6	<1
B-30/S-4	6-8	<1
B-30/S-5	8-10	<1
B-31/S-1	0-2	<1
B-31/S-2	2-4	1.1
B-31/S-3	4-6	<1
B-31/S-4	6-8	<1
B-31/S-5	8-10	<1

Notes: * = Indicates sample submitted for laboratory analysis
PPM = Parts Per Million

TABLE 2
SOIL HEADSPACE RESULTS (PPM)
130 GRANITE AVENUE, DORCHESTER, MA
March 25, 26 & 27, 2002

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
CDW-5/S-1	0-2	<1
CDW-5/S-2*	2-4	<1
CDW-5/S-3	4-6	<1
CDW-5/S-4	6-8	<1
CDW-5/S-5	8-10	<1
CDW-5/S-6	10-12	<1
CDW-5/S-7	12-14	<1
CDW-5/S-8	14-16	<1
CDW-6/S-1*	0-2	1.2
CDW-6/S-2	5-7	<1
CDW-6/S-3	10-12	<1
CDW-6/S-4	15-17	<1
CDW-7/S-1*	0-2	6
CDW-7/S-2	5-7	3.6
CDW-7/S-3*	10-12	2.4
CDW-7/S-4	15-17	1.2
CDW-8/S-2*	4-8	<1
CDW-8/S-3	8-12	<1
B-32/S-1*	0-2	<1
B-32/S-2	2-4	2.6
B-33/S-1*	0-1	<1
B-33/S-2	1-3	2
B-33/S-3*	3-7	<1
B-33/S-4	7-11	<1
B-33/S-6*	15-18	<1
B-34/S-1*	0-2	<1
B-34/S-2	2-4	<1
B-35/S-1*	0-2	<1
B-35/S-2	2-4	<1
B-35/S-3	4-7	<1
B-35/S-4	7-11	1.6
B-35/S-5	11-15	<1

TABLE 2 (continued)
SOIL HEADSPACE RESULTS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
March 25, 26 & 27, 2002

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
B-35/S-6	15-18	1.2
B-36/S-1*	0-2	13
B-36/S-2	2-4	2
B-36/S-3	4-7	<1
B-36/S-4	7-11	<1
B-36/S-5	11-15	<1
B-37/S-1*	0-2	<1
B-37/S-2	2-4	5.6
B-37/S-3	4-7	<1
B-37/S-4	7-11	<1
B-37/S-5	11-15	<1
B-37/S-6	15-18	1.6
B-38/S-1*	0-2	<1
B-38/S-2	2-4	<1
B-38/S-3	4-7	2
B-38/S-4	7-11	<1
B-38/S-5	11-13	<1
B-39/S-1	0-4	<1
B-39/S-2	4-7	<1
B-39/S-3	7-11	<1
B-39/S-4*	11-15	<1
B-40/S-1	0-4	1.6
B-40/S-2	4-7	<1
B-40/S-3*	7-9	<1
B-41/S-1	0-2	<1
B-41/S-2*	5-7	1.2
B-42/S-1	0-2	<1
B-42/S-2	5-7	2
B-42/S-3*	10-12	<1
B-42/S-4	15-17	<1
B-43/S-1	0-4	1.2

TABLE 2 (continued)
SOIL HEADSPACE RESULTS (PPM)
140 GRANT AVENUE, DORCHESTER, MA
March 25, 26 and 27, 2002

<u>Boring/Sample</u>	<u>Depth (feet)</u>	<u>PID Reading</u>
B-43/S-2	4-8	<1
B-43/S-3*	8-12	<1
B-43/S-4	12-16	<1
B-44/S-1	0-4	<1
B-44/S-2	4-8	2.4
B-44/S-3*	8-12	<1
B-44/S-4	12-16	<1
B-45/S-1	0-4	1.2
B-45/S-2*	4-8	2
B-45/S-3	8-12	<1
B-45/S-4	12-16	1.2
B-46/S-1	0-4	<1
B-46/S-2*	4-8	67
B-46/S-3	8-12	<1

Notes: * = Indicates sample submitted for laboratory analysis
PPM = Parts Per Million

TABLE 3
GROUNDWATER QUALITY DATA
140 GRANITE AVENUE, DORCHESTER
January 11, 2002

<u>Well Number</u>	<u>Temperature (°C)</u>	<u>pH</u>	<u>Conductivity (μS)</u>
CDW-1	9.3	7.30	1806
CDW-2	12.5	7.04	1674
CDW-3	16.4	6.41	608
CDW-4	14.1	6.84	1140
EMW-1	NA	NA	NA
EMW-2	15.3	8.02	1391
EMW-3	12.9	6.57	1510
EMW-4	13.9	6.84	3204
EMW-5	11.4	7.04	100.3
EMW-6	10.5	7.35	1150
EMW-7	12.4	6.53	3968
EMW-8	NA	NA	NA

Note: NA = Not measured due to no protective roadbox.

TABLE 4
GROUNDWATER QUALITY DATA
140 GRANITE AVENUE, DORCHESTER
April 1, 2002

<u>Well Number</u>	<u>Temperature (°C)</u>	<u>pH</u>	<u>Conductivity (μS)</u>
CDW-1	8	7.25	624
CDW-2	10.7	7.05	1155
CDW-3	11.2	6.63	414.2
CDW-5	10.1	7.65	110.7
CDW-6	11.3	7.01	1581
CDW-7	8.4	7.16	380.6
EMW-5	12.4	7.26	43.8
EMW-6*	11.8	7.39	1.1
EMW-7	8.9	7.02	2029
EMW-9	9.9	7.01	462

Note: * = 1 inch diameter well.

TABLE 5
GROUNDWATER ELEVATION DATA
140 GRANITE AVENUE, DORCHESTER
December 26, 2001

<u>Well Number</u>	<u>Well Elevation (ft)</u>	<u>Depth to Water (ft)</u>	<u>Groundwater Elevation (ft)</u>
CDW-1	6.63	4.14	2.49
CDW-2	8.72	5.91	2.81
CDW-3	7.98	5.30	2.68
CDW-4	9.95	6.09	3.86
EMW-1	NM	8.91	NM
EMW-2	NM	5.14	NM
EMW-4	NM	5.54	NM
EMW-5	8.44	5.67	2.77
EMW-7	7.42	3.47	3.95

Note: Well elevations and groundwater depths were measured from the top of the PVC riser.
 NM = Not Measured

TABLE 6
GROUNDWATER ELEVATION DATA
140 GRANITE AVENUE, DORCHESTER
April 1, 2002

<u>Well Number</u>	<u>Well Elevation (ft)</u>	<u>Depth to Water (ft)</u>	<u>Groundwater Elevation (ft)</u>
CDW-1	6.63	2.60	4.03
CDW-2	8.68	5.36	3.32
CDW-3	7.84	4.33	3.51
CDW-4	9.83	5.79	4.04
CDW-5	8.41	4.80	3.61
CDW-6	8.48	5.17	3.31
CDW-7	7.01	4.26	2.75
EMW-2	8.27	4.68	3.59
EMW-4	8.11	4.80	3.31
EMW-5	8.38	5.04	3.34
EMW-6	7.31	4.87	2.44
EMW-7	7.53	3.06	4.47
EMW-9	7.55	5.74	1.81
EMW-11	8.16	4.96	3.20

Note: Well elevations and groundwater depths were measured from the top of the PVC riser.

TABLE 7 LABORATORY ANALYSIS OF SOIL SAMPLES: VPHS & VOCs (PPM) 140 GRANITE AVENUE, DORCHESTER, MA DECEMBER 10, 11 and 12, 2001										
Compound	B-3/ S-1	B-5/ S-2	B-8/ S-2	B-10/ S-1	B-19/ S-1 (DUP)*	B-21/ S-1	B-26/ S-2	CDW-3/ S-2	RCS-1	Method 1/ Standard
	0-4'	4-6.5'	4-8'	0-4'	0-4'	0-4'	4-8'	2-4'		
C5-C8 Aliphatics	ND	29.2	ND	ND	• ND	ND	ND	9.7	100	100
C9-C12 Aliphatics	ND	11.7	ND	1.5	0.55	7.7	2.2	2.2	1,000	1,000
C9-C10 Aromatics	ND	ND	ND	1.6	ND	0.58	ND	ND	100	100
n-Butylbenzene	ND	ND	ND	0.14	ND	ND	ND	ND	NA	NA
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.24	ND	ND	2	100
Ethylbenzene	ND	ND	ND	0.12	ND	ND	ND	ND	80	500
Naphthalene	ND	0.29	ND	0.18	0.24	0.089	ND	ND	4	100
Tetrachloroethene	ND	ND	ND	ND	ND	0.1	ND	ND	0.5	20
1,2,4-Trimethylbenzene	ND	ND	ND	0.38	ND	0.09	ND	ND	1,000	NA
Toluene	ND	ND	0.21	0.28	ND	ND	ND	ND	90	500
m,p-Xylenes	ND	ND	ND	0.56	ND	ND	ND	ND	500	500

Notes: PPM = Parts per million (mg/Kg)
 * = Highest concentration detected in sample B-19/S-1 or the field duplicate is reported.
 ND = Not Detected
 NA = No standard exists
 RCS-1 = Reportable concentration for soil category RCS-1
 Method 1 Standard = More restrictive of Method 1 Risk Assessment standard for S-1 classified soil and GW-2 or GW-3 gw

TABLE 3 LABORATORY ANALYSIS OF SOIL SAMPLES: VPH & VOCs (PPM) 310 GRANITE AVENUE DORCHESTER, MA MARCH 25, 26 & 27, 2002																
Compound	CDW-5/ S-2	CDW-6/ S-1 DUP	CDW-7/ S-1	CDW-7/ S-3	CDW-8/ S-2	B-33/ S-3	B-33/ S-6	B-39/ S-4	B-40/ S-3	B-42/ S-3	B-43/ S-3	B-44/ S-3	B-45/ S-2	B-46/ S-2	Method 1 Standard	
	2-4'	0-2'	0-2'	10-12'	4-8'	3-7'	15-18'	11-15'	7-9"	10-12'	8-12'	8-12'	4-8'	4-8'	S-1/ GW-2	S-1/ GW-3
C5-C8 Aliphatics	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23	100	100
C9-C12 Aliphatics	ND	ND	2.8	0.78	ND	0.91	ND	ND	ND	ND	ND	ND	ND	13	1,000	1,000
C9-C10 Aromatics	ND	ND	0.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.75	100	100
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	NA	NA
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.22	NA	NA
Chlorobenzene	ND	ND	ND	ND	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	80	40
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24	500	500
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23	NA	NA
4-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32	NA	NA
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32.2	100	100
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	NA	NA
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	500	500
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.84	NA	NA
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.42	NA	NA
m,p-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.47	500	500
O-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24	500	500

Notes: PPM
 • Highest concentration detected in sample CDW-6/S-1 or the field duplicate is reported.
 ND Not Detected
 NA No standard exists
 Method 1 Standard
 more restrictive

TABLE 9
LABORATORY ANALYSIS OF SOIL SAMPLES - EPH AND PAHS (PPM)
140 GRANITE AVENUE, DORCHESTER, MA
December 10, 1999 and 12, 2001

Compound	B-3/ S-1	B-5/ S-2	B-8/ S-2	B-10/ S-1	B-19/ S-1 (DUP)	B-21/ S-1	B-26/ S-2	CDW-3/ S-2	RCS-1	Method 1 Standard
	0-4'	4-6.5'	4-8'	0-4'	0-4'	0-4'	4-8'	2-4'		
C9-C18 Aliphatics	ND	64	140	ND	110	(2,300)	430	ND	1,000	1,000
C19-C36 Aliphatics	120	600	780	300	850	(5,100)	(6,700)	340	2,500	2,500
C11-C22 Aromatics	ND	75	510	ND	268	(843)	(1,500)	ND	200	800
Acenaphthene	ND	0.95	ND	ND	0.72	ND	ND	ND	20	1,000
Fluorene	ND	0.98	ND	ND	0.73	ND	ND	ND	400	1,000
Phenanthrene	0.39	7.3	ND	0.31	6.5	0.49	ND	1	100	100
Anthracene	ND	2	ND	ND	2.2	ND	ND	0.21	1,000	1,000
Fluoranthene	0.61	6.7	ND	ND	7.4	0.54	ND	1.1	1,000	1,000
Pyrene	0.56	5.4	ND	ND	5.9	0.63	ND	1	700	700
Benzo(a)anthracene	0.35	(3.4)	ND	ND	(3.3)	0.26	ND	0.46	0.7	0.7
Chrysene	0.47	3.5	ND	ND	3.7	0.36	ND	0.67	7	7
Benzo(b)fluoranthene	(0.92)	(6.7)	ND	ND	(6.2)	0.55	ND	(0.87)	0.7	0.7
Benzo(k)fluoranthene	0.41	2.5	ND	ND	2.9	ND	ND	0.46	7	7
Benzo(a)pyrene	0.61	(5.3)	ND	ND	(5.2)	0.4	ND	(0.79)	0.7	0.7
Indeno(1,2,3-cd)pyrene	0.43	(3.9)	ND	ND	(3.9)	ND	ND	0.5	0.7	0.7
Benzo(g,h,i)perylene	0.4	4.5	ND	ND	4.2	ND	ND	0.61	1,000	1,000

Notes: PPM = Parts per million (mg/Kg)

ND = Not Detected

RCS-1 = Reportable concentration for soil category RCS-1

Method 1 Std = Method 1 Risk Assessment standard for S-1 classified soil and GW-2 and GW-3 classified groundwater, whichever is more restrictive

(Bold) = Value exceeds Method-1 standard

TABLE 10 LABORATORY ANALYSIS OF SOIL SAMPLES - EPH AND PAHS (PPM) 10 GRANITE AVENUE, DORCHESTER, MA March 25, 2007															
Compound	CDW-5/ S-2	CDW-6/ S-1 DUP	CDW-7/ S-1	CDW-7/ S-3	CDW-8/ S-2	B-33/ S-3	B-33/ S-6	B-39/ S-4	B-40/ S-3	B-42/ S-3	B-43/ S-3	B-44/ S-3	B-45/ S-2	B-46/ S-2	Method 1 Standard
	2-4'	0-2'	0-2'	10-12'	4-8'	3-7'	15-18'	11-15'	7-9'	10-12'	8-12'	8-12'	4-8'	4-8'	
C9-C18 Aliphatics	ND	220	(3,000)	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	53	1,000
C19-C36 Aliphatics	ND	660	(6,400)	320	110	230	71	ND	110	ND	ND	ND	480	310	2,500
C11-C22 Aromatics	ND	332	(2,900)	61	ND	57	ND	ND	49	ND	ND	ND	105	570	800
2 Methylanthralene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	500
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.9	1,000
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	1,000
Phenanthrene	ND	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37	69	100
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27	1,000
Fluoranthene	ND	0.56	0.45	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.89	52	1,000
Pyrene	ND	0.78	0.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82	46	700
Benzo(a)anthracene	ND	0.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.40	(22)	0.7
Chrysene	ND	0.49	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.64	(17)	7
Benzo(b)fluoranthene	ND	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59	(14)	0.7
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	(8.4)	7
Benzo(a)pyrene	ND	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	(14)	0.7
Dibenzo (a,h) anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	(2.1)	0.7
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	(7.4)	0.7
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.4	1,000

Notes: PPM = Parts per million (mg/Kg)

ND = Not Detected

Method 1 Std

(Bold)

= Method 1 Risk Assessment standard for S-1 classified soil and GW-2 and GW-3 classified groundwater, whichever is more restrictive

= Value exceeds Method 1 standard

TABLE 1 LABORATORY ANALYSIS OF SOIL SAMPLES, PPV13 (PPM) 100 GRANITE AVENUE December 10, 2001 and 12, 2003																
Compound	B-1/ S-1 (0-4")	B-3/ S-1 (0-4")	B-4/ S-2 (4-8")	B-5/ S-2 4-6.5"	B-8/ S-2 (4-8")	B-10/ S-1 (0-4")	B-11/ S-1 (0-4")	B-16/ S-1 (0-4")	B-18/ S-2 (4-6")	B-19/ S-1 (DUP) (0-4")	B-21/ S-1 (0-4")	B-26/ S-2 (4-8")	B-27/ S-1 (0-4")	CDW-3/ S-2 (2-4")	RCS-1	Method 1 Standard
Antimony	(78.6)	ND	ND	ND	ND	ND	(227)	ND	ND	ND	ND	ND	ND	ND	10	20
Arsenic	ND	ND	ND	ND	ND	(35.7)	6.39	ND	ND	4.99	ND	ND	ND	ND	30	30
Cadmium	16.5	1.59	2.35	19.2	1.17	12.4	7.73	3.69	0.92	(381)	19.6	4.79	1.41	(30.9)	30	30
Chromium	82.9	19.3	16.1	84.3	10.5	45.7	18.3	12.2	10.5	165	36.2	13.7	17.2	94.8	1,000	1,000
Copper	(37,300)	326	286	(13,600)	62	(41,700)	(8,670)	758	30	(6,200)	(2,100)	23.7	281	(1,900)	1,000	NA
Lead	(21,500)	(399)	(469)	(21,800)	79	(49,000)	(33,300)	(1,780)	17.3	(38,500)	(974)	64.3	162	(4,000)	300	300
Mercury	(37)	0.304	0.609	0.908	ND	ND	13	1.01	ND	5.02	1.52	ND	ND	4.16	20	20
Nickel	109	22.8	22	151	15	85.6	43	15.5	12.7	193	75.2	14.3	24.7	146	300	300
Silver	ND	ND	ND	ND	ND	ND	2.57	ND	ND	(332)*	ND	ND	ND	ND	100	100'
Zinc	(39,900)	400	84	(23,100)	574	(54,500)	(9,630)	1,550	71.5	(31,700)	1,200	204	217	(5,600)	2,500	2,500

Notes: PPM
 ND Not Detected
 NA No Standard Exists
 * Estimated Value
 RCS-1 Reportable concentration for soil category RCS-1
 Method 1 Risk Assessment standard for S-1 classified soil and GW-2 and GW-3 classified groundwater, whichever is more restrictive
 (Bold) Value exceeds Method 1 standard

TABLE 12 LABORATORY ANALYSIS OF SOIL SAMPLES (PPM) & Free Cyanide (PPM) 100 GRANITE AVENUE March 23, 26 & 27, 2002																
Compound	CDW-5/ S-2 2-4'	CDW-6/ S-1 DUP 0-2'	CDW-7/ S-1 0-2'	CDW-7/ S-3 10-12'	CDW-8/ S-2 4-8'	B-33/ S-3 0-4'	B-33/ S-6 4-8'	B-39/ S-4 11-15"	B-40/ S-3 7-11"	B-41/ S-2 5-7'	B-42/ S-3 10-12'	B-43/ S-3 8-12'	B-44/ S-3 8-12'	B-45/ S-2 4-8'	B-46/ S-2 4-8'	Method 1 Standard
Antimony	ND	(86.9)	(14.1)	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	10
Arsenic	ND	20.3	ND	ND	ND	(33.3)	ND	ND	ND	NT	ND	ND	ND	ND	ND	30
Cadmium	1.59	8.48	(34.9)	2.16	1.6	13.3	0.597	ND	ND	NT	ND	ND	ND	25.1	2.07	30
Chromium	9.59	16.5	47.4	17.5	21.8	43.7	49.8	6.51	15	NT	7.97	14.2	10.8	65.1	12.5	1,000
Copper	379	47,400	715	2,040	1,200	27,300	416	13.3	25.5	NT	72.6	11.6	23.8	3,600	31.4	NA
Lead	103	(19,900)	(701)	86.1	(2,000)	(40,300)	276	8.19	44.6	(3,670)	140	8.76	10.6	(10,400)	81.3	300
Mercury	ND	1.82	0.339	ND	13.5	ND	ND	ND	ND	NT	ND	ND	ND	7.36	ND	20
Nickel	16.6	37.8	77.7	18.6	18.2	94	37.5	4.39	8.55	NT	9.96	11	10.9	158	12.7	300
Selenium	ND	21.7	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	400
Zinc	277	(23,700)	868	516	(2,800)	(4,740)	252	18.9	50.3	NT	106	29.9	38	(7,700)	212	2,500
Free Cyanide	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1.2	NT	100

Notes: PPM

ND

NA

Method 1 Standard

(Bold)

Parts per million (mg/kg)

Not Detected

No Standard Exists

Method 1 Risk Assessment standard for S-1 classified soil and GW-2 and GW-3 classified groundwater, whichever is more restrictive

Value exceeds Method 1 standard

TABLE 13 LABORATORY ANALYSIS OF SOIL SAMPLES - PCBs and PAHs (PPM) 140 GRANITE AVENUE, DORCHESTER, MA December 12, 2001						
Compound	PCB-1	PCB-2	PCB-3	PCB-4	RCS-1	Method 1 Standard
PCB-1254	0.45	0.9	ND	(22.3)	2	2
PCB-1260	0.18	1.3	ND	(11.6)	2	2
Acenaphthene	ND	ND	ND	ND	20	1,000
Fluorene	ND	ND	ND	ND	400	1,000
Phenanthrene	0.62	1.2	0.31	0.94	100	100
Anthracene	ND	0.23	ND	ND	1,000	1,000
Fluoranthene	1.4	2.2	1.4	1.9	1,000	1,000
Pyrene	1.8	2.5	2.3	2.4	700	700
Benzo(a)anthracene	(0.82)	(1.1)	(1.1)	(1.3)	0.7	0.7
Chrysene	0.92	1.3	1.1	1.2	7	7
Benzo(b)fluoranthene	(1.2)	(1.3)	(1.6)	(1.7)	0.7	0.7
Benzo(k)fluoranthene	0.82	0.97	0.97	1.1	7	7
Benzo(a)pyrene	(1.1)	(1.2)	(1.5)	(1.6)	0.7	0.7
Indeno(1,2,3-cd)pyrene	(0.77)	(0.82)	(1.1)	(1.1)	0.7	0.7
Benzo(g,h,i)perylene	0.92	0.91	1.3	1.3	1,000	1,000

Notes:

PPM = Parts per million (mg/Kg)

ND = Not Detected

RCS-1 = Reportable concentration for soil category RCS-1

Method 1 Standard = Method 1 Risk Assessment standard for S-1 classified soil and GW-2 and GW-3 classified groundwater, whichever is more restrictive

(Bold) = Value exceeds Method 1 standard

TABLE 14 LABORATORY ANALYSIS OF SOIL SAMPLES - PCBs (PPM) 140 GRANITE AVENUE DORCHESTER, MA March 25, 2002										
Compound (Depth)	B-32/ S-1 (0-2')	B-32/ S-2* (2-4')	B-33/ S-1 (0-1')	B-33/ S-2* (1-3')	B-34/ S-1 (0-2')	B-35/ S-1 (0-2')	B-36/ S-1 (0-2')	B-37/ S-1 (0-2')	B-38/ S-1 (0-2')	Method 1 Standard
PCB-1242	ND	ND	(40.1)	ND	ND	ND	ND	ND	ND	2
PCB-1248	ND	ND	ND	(80)	ND	ND	ND	ND	ND	2
PCB-1254	(42)	ND	(21.6)	ND	1.2	1.3	(2.7)	0.58	0.21	2
PCB-1260	(12.8)	ND	(15.8)	ND	0.85	0.97	(2.5)	0.28	0.15	2

Notes:

PPM = Parts per million (mg/Kg)

ND = Not Detected

* = Sample was analyzed outside holding time.

Method 1 Standard = Method 1 Risk Assessment standard for S-1 classified soil and GW-2 and GW-3 classified groundwater, whichever is more restrictive

(Bold) = Value exceeds Method 1 standard

TABLE 1 LABORATORY ANALYSIS OF GROUNDWATER SAMPLES - EPH, PAHS, VOCs, SOLUBLE PPM13, TOTAL CYANIDE (PPM) 140 GRANITE AVENUE, DORCHESTER, MA December 26, 2001					
Compound	CDW-1	CDW-2	CDW-3/ DUP*	CDW-4	RCGW-2
EPH					
C19-C36 Aliphatics	0.83	0.55	0.76	0.79	20
C11-C22 Aromatics	ND	ND	0.22	ND	30
PAHs					
Benzo(b)fluoranthene	ND	ND	0.0075	ND	3
Benzo(a)pyrene	ND	ND	0.0072	ND	3
Phenanthrene	ND	ND	0.0096	ND	0.05
Fluoranthene	ND	ND	0.011	ND	0.2
Pyrene	ND	ND	0.012	ND	3
VOCs					
cis-1,2-Dichloroethene	0.0017	ND	ND	ND	30
PPM13					
Antimony	0.0147	ND	ND	ND	0.3
Cadmium	ND	0.0038	0.0053	ND	0.01
Chromium	ND	0.0032	ND	ND	2
Copper	0.0064	0.0455	0.0297	0.0339	100
Lead	(0.0676)	0.0176	ND	0.0093	0.03
Nickel	0.0336	0.0114	0.0664	0.0116	0.08
Zinc	(0.992)	0.142	(1.95)	0.387	0.9
Total Cyanide	ND	ND	(0.01)	ND	0.01

Note: PPM

= Parts per million (mg/L)

= Highest concentration detected in sample QDW-3 or the field duplicate is reported.

= Not Detected

= Reportable concentration for groundwater category RCGW-2

= Method 1 Standard for GW-2 and GW-3 classified groundwater, whichever is more restrictive

= Value exceeds Method 1 standard

RCGW-2

Method 1 Standard

(Bold)

TABLE 16 LABORATORY ANALYSIS OF GROUNDWATER SAMPLES - EPH, PAHs, VOCs, SOLUBLE PPMs, FREE CYANIDE (PPM) 110 GRANITE AVENUE, DORCHESTER, VA April 11, 2002											
Compound	CDW-1	CDW-2	CDW-3	CDW-5/ DUP*	CDW-6	CDW-7	CDW-8	EMW-5	EMW-6	EMW-7	Method 1 Standard
EPH C9-C18 Aliphatics C19-C36 Aliphatics C11-C22 Aromatics	ND	NT	ND	ND	ND	(4.8)	ND	NT	NT	NT	1
	ND	NT	0.60	ND	ND	14	0.87	NT	NT	NT	20
	ND	NT	0.24	ND	ND	9.7	0.87	NT	NT	NT	30
PAHs Phenanthrene Fluoranthene Pyrene	ND	NT	0.0071	ND	ND	ND	ND	NT	NT	NT	0.05
	ND	NT	0.0077	ND	ND	ND	ND	NT	NT	NT	0.2
	ND	NT	0.0071	ND	ND	ND	ND	NT	NT	NT	3
VOCs Methyl-/tert-butyl ether	ND	NT	ND	ND	1.2	ND	ND	NT	NT	NT	50
Soluble PPM13 Antimony Cadmium Copper Lead Nickel Zinc	0.0184	ND	ND	ND	ND	ND	0.0149	ND	ND	ND	0.3
	0.0081	ND	ND	ND	ND	ND	(0.0106)	ND	(0.0105)	0.0054	0.01
	0.0394	0.0298	0.0813	ND	ND	ND	0.193	ND	0.337	0.0767	NA
	(0.0377)	0.0148	0.0212	ND	0.0049	ND	0.0081	ND	ND	ND	0.03
	(0.229)	0.0069	0.0559	ND	ND	0.0063	0.0047	ND	(1.33)	0.0164	0.08
	(1.73)	0.0962	0.726	0.117	0.252	0.0724	0.0877	0.0241	(1.57)	(10.7)	0.9
Free Cyanide	NT	NT	ND	ND	ND	ND	NT	NT	NT	NT	0.01

Note: PPM = Parts per million (mg/L)
 * = Highest concentration detected in sample CDW-5 or the field duplicate is reported.
 ND = Not Detected
 Method 1 Standard = Method 1 Standard for GW-2 and GW-3 classified groundwater, whichever is more restrictive
 (Bold) = Value exceeds Method 1 standard

TABLE 17 LABORATORY ANALYSIS OF DEBRIS SAMPLES - PCBs, TOTAL LEAD, ASBESTOS (PPM) 140 GRANITE AVENUE, DORCHESTER, MA December 26, 2001					
Compound	<u>DEBRIS-1</u>	<u>DEBRIS-2</u>	<u>DEBRIS-3</u>	<u>DEBRIS-4</u>	<u>DEBRIS-5</u>
Description	concrete w/ painted coating	wood w/ some paint	brick & mortar	black asphalt	white concrete
PCB-1260	739.7	ND	0.061	0.180	9.9
Total Lead	21.6	56.9	7.77	7.54	18.6
Asbestos	None	None	None	None	None

Notes: PPM = Parts per million (mg/Kg)
None = Not Detected

TABLE 18 LABORATORY ANALYSIS OF DEBRIS SAMPLES - ASBESTOS (PPM) 140 GRANITE AVENUE, DORCHESTER, MA April 1, 2002										
Compound	ASB-1	ASB-2	ASB-3	ASB-4	ASB-5	ASB-6	ASB-7	ASB-8	ASB-9	ASB-10
Description	tan tiles	black paper on tile	black soil/pulverized debris	black soil/pulverized debris	black soil/pulverized debris	black soil/pulverized debris	black cardboard-like material	black/tan soil & pulverized rubble	brown soil & rubble	brown soil & rubble
Layer 1 % Asbestos/Type	Mastic 3%/Chrysotile	ND	ND	ND	ND	ND	ND	ND	Trace/Chrysotile	ND
Layer 2 % Asbestos/Type	Tile 3%/Chrysotile	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

PPM = Parts per million (mg/Kg)

ND = Not Detected

NA = Not Applicable

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Table 19
Mobility and Persistence of Contaminants Based on Chemical and Physical Properties

	YPH	EPH	PCBs	Metals
Chemical Properties				
Solubility (mg/l)	7E-2 - 51	1E-2 - 5.8	7E-3 - 5.9	Not soluble
Vapor Pressure (mm Hg)	6.63E-7 - 7.62E-5	2.43E-8 - 1.07E-7	10E-6 - 10E-3	Not volatile
Koc (octanol/carbon partition coefficient)	1,778 - 1.5E5	5,000 - 6.8E5	5.3E+05	No data
Log Kow (octanol/water partition coefficient)	No data	No data	6.5	No data
Henry's Law Constant (atm-m ³ /mole)	.33 - 65 (dimensionless)	0.03 - 69 (dimensionless)	2.00E-03	No data
Physical Properties				
Soil Type	sand, silt, gravel, peat	sand, silt, gravel, peat	sand, silt, gravel, peat	sand, silt, gravel, peat
Groundwater Flow Direction	Southeast	Southeast	Southeast	Southeast
Mobility	High	Low	Low	Low
Leaching Potential	High	Low	Low	Low
Volatility	High	Low	Low	Low
Persistence	Low	High	High	High

• C19-C36 Aliphatics fraction considered immobile, so no data available. Data shown pertains to the other two EPH fractions.
Sources:
 Genium Publishing Corporation, MSDS Collection, November 1988.
 LaGrega, Michael D., Phillip L. Buckingham, Jeffrey C. Evans, and The Environmental Resources Management Group, Hazardous Waste Management, Appendix A, 1994.
 Mackay, Donald, and Wan Ying Shiu, Critical Review of Henry's Law Constants for Chemicals of Environmental Interest, Journal of Physical and Chemical Reference Data, 10(4), 1981.
 MADEP, Background Documentation for the Development of Method 1 Standards, April 1994.
 MADEP, Characterizing Risks Posed by Petroleum Contaminated Sites: *Implementation of MADEP YPH/EPH Approach*, Public Comment Draft, October 31, 1997.

Table 20 Soil Exposure Point Concentrations (PPM)						
Contaminant of Concern	Exposure Point Concentration		Method 1 Standards			
	0-15 ft.	>15 ft.	S-1/GW-2	S-1/GW-3	S-3/GW-2	S-3/GW-3
C5-C8 Aliphatics	4	ND	100	100	500	500
C9-C12 Aliphatics	2	ND	1,000	1,000	5,000	5,000
C9-C10 Aromatics	0.4	ND	100	100	500	500
Naphthalene	2	ND	100	100	1,000	1,000
C9-C18 Aliphatics	300	ND	1,000	1,000	5,000	5,000
C19-C36 Aliphatics	1,000	71	2,500	2,500	5,000	5,000
C11-C22 Aromatics	300	ND	800	800	5,000	5,000
Antimony	227	NT	10	10	40	40
Arsenic	5	NT	1,000	1,000	30	30
Cadmium	20	NT	30	30	80	80
Chromium	30	NT	1,000	1,000	5,000	5,000
Copper	47,400	NT	300	300	200	200
Lead	49,000	NT	300	300	600	600
Mercury	3	NT	20	20	60	60
Nickel	50	NT	300	300	700	700
Silver	164	NT	100	100	200	200
Zinc	54,500	NT	2,500	2,500	5,000	5,000
PCBs	80	NT	2	2	2	2

S-13/GW-2 = Method 1 standards for S-1 classified soil in a groundwater area classified as GW-2
 S-1/GW-3 = Method 1 standards for S-1 classified soil in a groundwater area classified as GW-3
 S-3/GW-2 = Method 1 standards for S-3 classified soil in a groundwater area classified as GW-2
 S-3/GW-3 = Method 1 standards for S-3 classified soil in a groundwater area classified as GW-3
 PPM = Parts Per Million

Table 21 Groundwater Exposure Point Concentrations (PPB)			
Contaminant of Concern	Exposure Point Concentration	Method 1 Standards	
		GW-2	GW-3
C9-C18 Aliphatics	4,800	1,000	20,000
C19-C36 Aliphatics	14,000	NA	20,000
C11-C22 Aromatics	9,700	50,000	30,000
Antimony	14.9	NA	300
Cadmium	10.6	NA	10
Copper	337	NA	30
Lead	67.6	NA	30
Nickel	1,330	NA	80
Zinc	10,700	NA	900

GW-2 = Method 1 standards for groundwater area classified as GW-2
 GW-3 = Method 1 standards for groundwater area classified as GW-3
 PPB = Parts Per Billion
 NA = Not Available
 Bold = Exceeds Method 1 Standard

APPENDIX C

BORING LOGS AND
WELL CONSTRUCTION DIAGRAMS

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-1 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	6-11-8-5	0-2'	6"		Dry, medium dense, brown, FINE-MEDIUM SAND, some cobbles PID Headspace = 0.0 ppm.
2						
3	S-2	4-7-6-3	2-4'	4"		Wet, medium dense, brown, FINE-MEDIUM SAND, some cobbles. PID Headspace = 0.0 ppm.
4						
5	S-3	13-10-7-8	4-6'	14"		Moist, medium dense, gray/black, FINE SAND & SILT, some cobbles, over GRAY SILT. Some bands of coal. PID Headspace = 0.0 ppm.
6						
7	S-4	10-6-5-5	6-8'	12"		Wet, medium dense, gray SILT, some cobbles, over brown/black FINE SAND, some gray ash. PID Headspace = 0.0 ppm.
8						
9	S-5	5-5-7-2	8-10'	10"		Wet, medium dense, brown/black, FINE SAND & SILT over brown PEAT. PID Headspace = 1.1 ppm.
10						
11						
12						Set well point at 12'
13						
14						
15						
16						
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19						
20						
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24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Peat
Rock:	N/A
Well Depth:	12'
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-2 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	20-40-40-30	0-2'	14"		Moist, very dense, brown, FINE-MEDIUM SAND & COBBLES over crushed BRICK. Some black coal. PID Headspace = 0.0 ppm.
2						
3	S-2	65-120-3"	2-4'	6"		Moist, very dense, dark brown & black, FINE-MEDIUM SAND, some gravel, coal and brick. PID Headspace = 0.0 ppm.
4						
5	S-3	7-7-22-22	4-6'	20"		Moist, medium dense, gray/tan, SILT, some gravel. PID Headspace = 0.0 ppm.
6						
7	S-4	14-12-9-13	6-8'	18"		Moist, medium dense, gray/tan SILT. PID Headspace = 0.0 ppm.
8						
9	S-5	12-11-12-10	8-10'	3"		Wet, medium dense, tan, FINE SAND & SILT, some gravel & cobbles. PID Headspace = 0.0 ppm.
10						
11						Set well point at 12'
12						
13						
14						
15						
16						
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24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Cobbles, Silt
Rock:	N/A
Well Depth:	12'
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-3 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Stroto Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	11-12-11-12	0-2'	12"		Moist, medium dense, brown/tan, FINE-MEDIUM SAND, some gravel, cobbles, coal, and wood. PID Headspace = 0.0 ppm.
2						
3	S-2	26-100-5"	2-4'	7"		Moist, very dense, brown/orange, FINE-MEDIUM SAND w/ iron deposits and coal. PID Headspace = 15.5 ppm.
4						
5	S-3	5-1-2-1	4-6'	4"		Moist, very loose, brown, FINE-MEDIUM SAND, some gravel and wood. PID Headspace = 0.0 ppm.
6						
7	S-4	2-2-2-2	6-8'	20"		Moist, very loose, wet, gray SILT over brown SILT and PEAT. PID Headspace = 0.0 ppm.
8						
9	S-5	2-1-1-2	8-10'	20"		Wet, very loose, light brown SILT & FINE SAND, some peat. PID Headspace = 0.0 ppm.
10						
11						Set well point at 12'
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Peat
Rock:	N/A
Well Depth:	12'
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-4 (CDW-4) Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here on Dec. 12, 2001

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	18"		Asphalt 0-3"
2						Moist, brown, FINE-MEDIUM SAND, some gravel and crushed cobbles.
3						sand (coal). PID Headspace = 0.0 ppm.
4						
5	S-2		4-8'	16"		Dry-moist, brown/orange, SAND over wet, brown, SILTY PEAT.
6						PID Headspace = 0.0 ppm.
7						
8						
9	S-3		8-12'	48"		Wet, brown PEAT over wet gray, FINE-MEDIUM SAND, SILT, some
10						gravel, & cobbles. PID Headspace = 0.0 ppm.
11						
12						
13						Set well point at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-5 Sh 1 of 1

Total Depth 16' Location Dorchester, MA Logged by Brian Miller

Date Started March 26, 2002 Completed March 26, 2002 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	50/6"	0-2'	5"		Asphalt 0-3" Moist, very dense, brown, FINE-MEDIUM SAND & GRAVEL, some coal PID Headspace = 0.0 ppm.
2						
3	S-2	7-5-4-4	2-4'	6"		Moist, loose, black & tan, FINE-MEDIUM SAND, some gravel. PID Headspace = 0.0 ppm.
4						
5	S-3	4-2-3-3	4-6'	4"		Wet, loose, dark brown, FINE-MEDIUM SAND, some gravel. PID Headspace = 0.0 ppm.
6						
7	S-4	2-2-2-2	6-8'	2"		Wet, very loose, dark brown, FINE-MEDIUM SAND, some gravel. PID Headspace = 0.4 ppm.
8						
9	S-5	1-1-1-1	8-10'	22"		Wet, very loose, dark brown, organic PEAT. PID Headspace = 0.8 ppm.
10						
11	S-6	18-6-4-5	10-12'	20"		Wet, medium dense, dark brown, organic PEAT. PID Headspace = 0.4 ppm.
12						
13	S-7	34-30-10-12	12-14'	15"		Wet, dense, PEAT over gray SILT & GRAVEL. PID Headspace = 0.8 ppm.
14						
15	S-8	22-49-100/3"	14-16'	20"		Wet, very dense, brown SILTY PEAT over crushed gray cobbles. PID Headspace = 0.8 ppm.
16						
17						
18						
19						
20						Set well point at 12'
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point
4/1/02		4.80'	top of PVC

Summary	
Overburden:	Sand, Gravel, Silt, Peat
Rock:	N/A
Well Depth:	12'
Boring:	16'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-6 Sh 1 of 1
 Total Depth 17' Location Dorchester, MA Logged by Brion Miller
 Date Started March 26, 2002 Completed March 26, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	12-50/4"	0-2'	8"		Asphalt 0-3" Moist, very dense, tan, FINE-MEDIUM SAND, GRAVEL & COBBLES, some black coal. PID Headspace = 1.2 ppm.
2						
3						
4						
5	S-2	9-5-6-8	5-7'	1"		Wet, medium dense, brown, FINE-MEDIUM SAND & GRAVEL. PID Headspace = 0.8 ppm.
6						
7						
8						
9	S-3	5-9-16-17	10-12'	18"		Wet, medium dense, tan, FINE-MEDIUM SAND, trace gravel. PID Headspace = 0.8 ppm.
10						
11						
12						
13	S-4	60-50/2"	15-17'	3"		Wet, very dense, tan, SILT, trace gravel over cobbles. PID Headspace = 0.0 ppm.
14						
15						
16						
17						Set well point at 12'
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point
4/1/02		5.17'	top of PVC

Summary	
Overburden:	Sand, Gravel, Cobbles, Silt
Rock:	N/A
Well Depth:	12'
Boring:	17'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-7 Sh 1 of 1
 Total Depth 17' Location Dorchester, MA Logged by Brian Miller
 Date Started March 26, 2002 Completed March 26, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks A 2" diameter monitoring well was installed here

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	9-14-30-18	0-2'	12"		Moist, dense, brown, FINE-MEDIUM SAND, some gravel & wood, trace cobbles & coal. PID Headspace = 6 ppm.
2						
3						
4						
5	S-2	9-72/3"	5-7'	4"		Moist, very dense, brown, FINE-MEDIUM SAND & GRAVEL over dark brown FINE-MEDIUM SAND & GRAVEL. PID Headspace = 3.6 ppm.
6						
7						
8						
9	S-3	3-2-4-10	10-12'	4"		Wet, loose, dark brown/black, FINE-MEDIUM SAND, trace gravel & wood. PID Headspace = 2.4 ppm.
10						
11						
12						
13	S-4	11-22-31-35	15-17'	10"		Wet, very dense, brown, FINE-COARSE SAND, gravel and cobbles. PID Headspace = 1.2 ppm.
14						
15						
16						
17						Set well point at 12'
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point
4/1/02		4.26'	top of PVC

Summary	
Overburden:	Sand, Gravel
Rock:	N/A
Well Depth:	12'
Boring:	17'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING CDW-8 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started March 27, 2002 Completed March 27, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks A 3/4" diameter monitoring well was installed here on March 27, 2002

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	0"		Concrete 0-3" No Recovery
2						
3						
4						
5	S-2		4-8'	12"		Wet, light brown/tan, FINE-MEDIUM SAND & GRAVEL over black/dark brown, FINE SAND, some peat. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	30"		Wet, gray, FINE-MEDIUM SAND & GRAVEL, some cobbles over fine tan SAND. PID Headspace = 0.0 ppm.
10						
11						
12						
13						Set well point at 12'
14						
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Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel
Rock:	N/A
Well Depth:	12
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-1 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	24"		Asphalt 0-2"
2						Dry, brown, FINE-MEDIUM SAND over moist orange/black FINE SAND with a lens of silt and clay, some wood, glass, brick. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	18"		Moist, brown, FINE-MEDIUM SAND, over black PEAT and CLAY. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	24"		Wet, tan, FINE-COARSE SAND & GRAVEL, some silt. cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden: Sand, Gravel, Peat, Clay
Rock: N/A
Well Depth: N/A
Boring: 12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-2 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	16"		Asphalt 0-2"
2						Moist, brown, FINE-MEDIUM SAND over COBBLES & GRAVEL. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	9"		Moist, brown, FINE-MEDIUM SAND, over light brown FINE-MEDIUM SAND, GRAVEL & COBBLES. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-10'	26"		Wet, orange silty SAND & COBBLES over wet, gray COBBLES & SILT. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel, Cobbles, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-3 Sh 1 of 1

Total Depth 9' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1						Asphalt 0-2"
2	S-1		0-4'	36"		Dry-moist, brown/tan, FINE-COARSE SAND & GRAVEL, some brick. PID Headspace = 0.0 ppm.
3						
4						
5						
6	S-2		4-8'	5"		Moist, brown, FINE-MEDIUM SAND & GRAVEL, some cobbles & brick. PID Headspace = 0.0 ppm.
7						
8	S-3		8-9'	5"		Wet, dark brown, FINE-COARSE SAND, GRAVEL & COBBLES over gray, FINE-COARSE SAND, SILT & COBBLES. PID Headspace = 2.2 ppm.
9						
10						
11						
12						Refusal at 9'
13						
14						
15						
16						
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25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Cobbles, Brick
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900.00 Client MDC BORING B-4 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strato Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	18"		Asphalt 0-2"
2						Moist, brown, FINE-MEDIUM SAND, some gravel and crushed cobbles. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	16"		Dry-moist, brown/orange, FINE SAND over wet, brown SILTY PEAT. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	48"		Wet, brown, PEAT over wet, gray, FINE-MEDIUM SAND & SILT, some gravel and cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of Boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-5 Sh 1 of 1
 Total Depth 6.5' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	36"		Asphalt 0-2"
2						Moist, gray/black/orange, FINE-MEDIUM SAND, lens of white/green coarse sand. coal and ash noted in sample. PID Headspace = 0.0 ppm.
3						
4	S-2		4-6.5'	5"		Moist, brown/gray, FINE-MEDIUM SAND, over wet, brown sand. Ash, wood, and glass noted. PID Headspace = 11.5 ppm.
5						
6						Refusal at 6.5'
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Fill
Rock:	N/A
Well Depth:	N/A
Boring:	6.5'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-6 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	36"		Asphalt 0-2"
2						Dry, brown/tan, FINE-COARSE SAND with lens of green/black sand, over moist, gray/white organic material. Coal and ash noted. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	8"		Wet, brown/orange, FINE-MEDIUM SAND & GRAVEL, some silt. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	0"		No Recovery
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-7 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brion Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	40"		Asphalt 0-2"
2						Moist, brown, FINE-MEDIUM SAND & COBBLES over BRICK & COAL. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	18"		Wet, dark brown, FINE-MEDIUM SAND, trace gravel with some gray/ green material over dark brown PEAT. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	2"		Wet, dark brown, PEAT and brown CLAY over gray, FINE-MEDIUM SAND. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Cobble, Peat, Clay
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-8 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	30"		Asphalt 0-3"
2						Dry, brown/l. brown, FINE-MEDIUM SAND, some coal, brick and wood. trace cobbles. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	20"		Wet, gray/brown, FINE-COARSE SAND over PEAT. Slight petroleum odor. PID Headspace = 1.5 ppm.
6						
7						
8						
9	S-3		8-12'	20"		Wet, dark brown PEAT. Slight petroleum odor. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-9 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	36"		Asphalt 0-2"
2						Moist, brown/d. brown, FINE-MEDIUM SAND, some small cobbles & brick over lens of black coal. PID Headspace = 0.0 ppm.
3						
4	S-2		4-8'	26"		
5						
6						Moist, tan, FINE-COARSE SAND & GRAVEL over wet, FINE- COARSE SAND & GRAVEL PID Headspace = 0.0 ppm.
7	S-3		8-12'	42"		
8						
9						Wet, gray, FINE-COARSE SAND over layer of orange, FINE-COARSE SAND/GRAVEL/COBBLES, over gray, FINE SAND. PID Headspace = 0.0 ppm.
10						
11						
12						
13						
14						End of boring at 12'
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel, Cobbles
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-10 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	48"		Asphalt 0-2"
2						Moist, gray/black stripped, FINE-MEDIUM SAND over gray/brown, FINE SAND. Fill varies. Ash noted. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	20"		Moist, light brown/tan, FINE-COARSE SAND/GRAVEL & COBBLES over wet, MEDIUM-COARSE SAND & GRAVEL. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	12"		Wet, tan, MEDIUM-COARSE SAND & GRAVEL, trace cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel, Cobbles
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-11 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1						Concrete 0-4"
2	S-1		0-4'	6"		Moist, green/gray, FINE-MEDIUM SAND, over brown/yellow, FINE SAND. PID Headspace = 0.0 ppm.
3						
4						
5						
6	S-2		4-8'	30"		Moist, tan, SAND with orange bands, over wet, tan/gray, SILTY SAND. PID Headspace = 0.0 ppm.
7						
8						
9						
10	S-3		8-9'	10"		Wet, tan, FINE SAND, some gravel over CRUSHED COBBLES. PID Headspace = 0.0 ppm.
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Cobbles.
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900.00 Client MDC BORING B-12 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	15"		Asphalt 0-2"
2						Moist, black, FINE-MEDIUM SAND, over brown, FINE-MEDIUM SAND, some cobbles, wood, and brick. PID Headspace = 1.1 ppm.
3						
4						
5	S-2		4-8'	30"		Moist, brown/orange, FINE SAND w/ lens of rust over FINE-COARSE SAND & GRAVEL, over wet FINE-MEDIUM SAND, some gravel. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	30"		Wet, tan, FINE-COARSE SAND over tan SILT w/ bands of orange. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of Boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden: Sand, Gravel, Silt
Rock: N/A
Well Depth: N/A
Boring: 12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-13 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 10, 2001 Completed Dec. 10, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	22"		Asphalt 0-2"
2						Moist, brown/d. brown, FINE-MEDIUM SAND, some gravel, trace coal. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	12"		
6						Moist, tan, FINE-COARSE SAND & GRAVEL, over wet, FINE SAND & COBBLES. PID Headspace = 0.0 ppm.
7						
8						
9	S-3		8-12'	25"		
10						Wet, tan/gray, FINE-COARSE SAND, GRAVEL & COBBLES. PID Headspace = 0.0 ppm.
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel, Cobbles
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-14 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	32"		Asphalt 0-2"
2						Moist, l. brown, FINE-MEDIUM SAND, some gravel over d. brown and black FINE-MEDIUM SAND, trace gravel & wood.
3						PID Headspace = 0.0 ppm.
4						
5	S-2		4-8'	28"		
6						Wet, gray, FINE-MEDIUM SAND, trace cobbles over brown, organic PEAT.
7						PID Headspace = 0.0 ppm.
8						
9	S-3		8-12'	48"		
10						Wet, brown, PEAT over gray/tan FINE-COARSE SAND & GRAVEL.
11						PID Headspace = 0.0 ppm.
12						
13						
14						End of boring at 12'
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-15 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	20"		Asphalt 0-2"
2						Moist, brown/l. brown, FINE-MEDIUM SAND, some cobbles, over dark brown & black FINE SAND, some cobbles. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	20"		Moist, brown, FINE-MEDIUM SAND & GRAVEL over tan, FINE-MEDIUM SAND & GRAVEL, some cobbles. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	15"		Wet, tan, FINE-COARSE SAND & GRAVEL, trace cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-16 Sh 1 of 1
 Total Depth 7' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	20"		Asphalt 0-2"
2						Dry, tan/brown, FINE-MEDIUM SAND, GRAVEL & COBBLES over layer of CRUSHED COBBLES over moist d. brown FINE SAND, trace brick. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-7'	30"		Moist, gray, FINE SAND & SILT, some cobbles over wet SILT & COBBLES PID Headspace = 0.0 ppm.
6						
7						
8						Refusal at 7'
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel, Cobbles, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-17 Sh 1 of 1
 Total Depth 5' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	16"		Asphalt 0-2"
2						Moist, l. brown, FINE-MEDIUM SAND & GRAVEL, trace cobbles, coal and brick. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-5'	7"		Moist, brown, FINE-MEDIUM SAND, trace gravel and brick over gray SILT, trace gravel. PID Headspace = 1.7 ppm.
6						
7						Refusal at 5'
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden: Sand, Gravel
Rock: N/A
Well Depth: N/A
Boring: 5'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-18 Sh 1 of 1
 Total Depth 6' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	20"		Asphalt 0-2"
2						Dry, l. brown/tan, FINE SAND, some gravel, wood & cobbles, trace brick PID Headspace = 0.8 ppm.
3						
4	S-2		4-8'	22"		
5						Dry, l. brown, FINE SAND, some gravel over orange, FINE SAND & moist, tan SILT. PID Headspace = 0.0 ppm.
6						
7						Refusal at 6'
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	6'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-19 Sh 1 of 1
 Total Depth 11' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strato Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	25"		Moist, d. brown/black, FINE-MEDIUM SAND, trace gravel over crushed BRICK. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	30"		Moist, gray, FINE SAND, some gravel over brown/orange FINE SAND & COBBLES, some brick. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-11'	28"		Wet, tan, MEDIUM-COARSE SAND & FINE GRAVEL, some brick over tan SILT. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 11'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Brick, Cobbles, Gravel
Rock:	N/A
Well Depth:	N/A
Boring:	11'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900.00 Client MDC BORING B-20 Sh 1 of 1
 Total Depth 6' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	22"		Moist, d. brown/black, FINE-MEDIUM SAND, some gravel & cobbles. PID Headspace = 2.6 ppm.
2						
3						
4						
5	S-2		4-6'	15"		Wet, d. brown, FINE-MEDIUM SAND over black, FINE SAND. PID Headspace = 3.3 ppm.
6						
7						
8						
9						Refusal at 6'
10						
11						
12						
13						
14						
15						
16						
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Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand
Rock:	N/A
Well Depth:	N/A
Boring:	6'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-21 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	30"		Moist, tan/brown, FINE-MEDIUM SAND, some gravel over BRICK, some bands of green soil, trace brown fine sand and coal. PID Headspace = 8.3 ppm.
2						
3						
4						
5	S-2		4-8'	20"		Moist, black, FINE-MEDIUM SAND & GRAVEL over wet, GRAVEL & COBBLES, and black, FINE SAND. (slight petroleum sheen.) PID Headspace = 5.0 ppm.
6						
7						
8						
9	S-3		8-12'	12"		Wet, d. brown, FINE SAND & SILT, some cobbles over PEAT. PID Headspace = 3.5 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel, Cobbles, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-22 Sh 1 of 1
 Total Depth 8' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6" In.	Depth Range	Rec.		
1	S-1		0-4'	36"		Moist, brown/tan, FINE SAND, some gravel over crushed cobbles, some coal and coal tar. PID Headspace = 0.2 ppm.
2						
3						
4						
5	S-2		4-8'	20"		Moist, tan, FINE SAND & SILT, some cobbles, over wet, gray, FINE SAND, SILT & COBBLES. PID Headspace = 0.0 ppm.
6						
7						
8						
9						Refusal at 8'
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Silt, Cobbles
Rock:	N/A
Well Depth:	N/A
Boring:	8'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-23 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	30"		Moist-wet, brown/tan, FINE-MEDIUM SAND, some silt and gravel, over black, FINE-MEDIUM SAND. PID Headspace = 0.2 ppm.
2						
3						
4	S-2		4-8'	26"		Wet, black/gray, FINE SAND, SILT & COBBLES. PID Headspace = 1.9 ppm.
5						
6						
7	S-3		8-12'	20"		Wet, black, FINE-MEDIUM SAND, over brown PEAT. Petroleum sheen. PID Headspace = 0.8 ppm.
8						
9						
10						End of boring at 12'
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
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22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden: Sand, Cobbles, Silt
Rock: N/A
Well Depth: N/A
Boring: 12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-24 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	30"		Dry, brown, FINE SAND, some gravel, over tan/brown, FINE-MEDIUM SAND, some cobbles, coal and brick. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	20"		Crushed brick over wet, gray, SILT, over PEAT with a trace of gravel. PID Headspace = 0.2 ppm.
6						
7						
8						
9	S-3		8-12'	16"		Wet, black, FINE-MEDIUM SAND, GRAVEL and brown PEAT over brown, FINE-MEDIUM SAND, trace gravel. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Peat, Silt, Gravel
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-25 Sh 1 of 1
 Total Depth 8.5' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	26"		Moist, brown, FINE-MEDIUM SAND, some gravel over dry, tan SILT and FINE SAND with bands of coal. PID Headspace = 0.0 ppm.
2						
3						
4	S-2		4-8'	20"		Wet, tan, SILT over CRUSHED BRICK over tan/gray, SILT & GRAVEL. PID Headspace = 0.0 ppm.
5						
6						
7	S-3		8-8.5'	10"		Wet, gray, SILT & COBBLES. PID Headspace = 0.0 ppm.
8						
9						
10						
11						
12						Refusal at 8.5'
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Silt, Brick
Rock:	N/A
Well Depth:	N/A
Boring:	8.5'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-26 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	8"		Moist, brown, FINE-MEDIUM SAND, some cobbles. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	24"		Wet, black/gray, FINE-MEDIUM SAND & SILT, some gravel. Slight petroleum odor. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	30"		Wet, black/gray, SILT & GRAVEL. Slight petroleum sheen & odor. PID Headspace = 1.3 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden: Sand, Gravel, Silt
Rock: N/A
Well Depth: N/A
Boring: 12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-27 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	20"		Moist, brown, FINE SAND, some gravel and cobbles. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	24"		Wet, tan, FINE SAND & SILT, some gravel and cobbles, bands of coal. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	7"		Wet, brown/black, FINE SAND, trace peat and cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900.00 Client MDC BORING B-28 Sh 1 of 1
 Total Depth 12' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	24"		Moist, d. brown/black, FINE-MEDIUM SAND, some gravel & cobbles over gray, FINE SAND, SILT & COBBLES. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	20"		Wet, GRAVEL, COBBLES & BRICK, trace silt over black FINE SAND & PEAT. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-3		8-12'	18"		Wet, brown, FINE-MEDIUM SAND, some brick over brown PEAT. PID Headspace = 0.0 ppm.
10						
11						
12						
13						End of Boring at 12'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Cobbles, Silt, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-29 Sh 1 of 1
 Total Depth 3' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 11, 2001 Completed Dec. 11, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-3'	20"		Moist, brown, FINE SAND, some gravel & cobbles over dry, gray SILT and GRAVEL. PID Headspace = 8.3 ppm.
2						
3						
4						
5						Refusal at 3' (4 attempts)
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
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21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	3'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-30 Sh 1 of 1
 Total Depth 10' Location Dorchester, MA Logged by Brian Miller
 Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	15-18-27-14	0-2'	8"		Moist, dense, brown, FINE-MEDIUM SAND, some cobbles & gravel over CRUSHED BRICK and COAL. PID Headspace = 0.0 ppm.
2						
3	S-2	30-14-8-7	2-4'	5"		CRUSHED BRICK and COAL over dry, medium densel. brown, FINE SAND & COBBLES. PID Headspace = 1.3 ppm.
4						
5	S-3	7-5-13-15	4-6'	14"		Moist, d. medium dense, brown, FINE-MEDIUM SAND, some cobbles, brick, coal, ash over gray SILT, trace gravel. PID Headspace = 0.0 ppm.
6						
7	S-4	10-5-6-28	6-8'	6"		Wet, medium dense, gray SILT, trace gravel. PID Headspace = 0.0 ppm.
8						
9	S-5	3-2-2-3	8-10'	20"		Moist, very loose, gray SILT over brown PEAT. PID Headspace = 0.0 ppm.
10						
11						
12						End of boring at 10'
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Silt, Peat
Rock:	N/A
Well Depth:	N/A
Boring:	10'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-31 Sh 1 of 1

Total Depth 10' Location Dorchester, MA Logged by Brian Miller

Date Started Dec. 12, 2001 Completed Dec. 12, 2001 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	28-15-9-28	0-2'	15"		Moist, medium dense, brown, FINE-MEDIUM SAND & COBBLES, trace gravel over CRUSHED BRICK, trace coal. PID Headspace = 0.0 ppm. CRUSHED BRICK over medium dense, gray, FINE SAND & SILT, some cobbles. PID Headspace = 1.1 ppm.
2						
3	S-2	17-13-9-9	2-4'	8"		
4						Dry, medium dense, tan, FINE-MEDIUM SAND, COBBLES, some coal, trace gravel. PID Headspace = 0.0 ppm.
5	S-3	30-7-4-3	4-6'	4"		
6						Moist, loose, brown, FINE-MEDIUM SAND, some cobbles. PID Headspace = 0.0 ppm.
7	S-4	7-3-7-12	6-8'	2"		
8						Wet, very dense, brown, FINE-MEDIUM SAND & SILT. PID Headspace = 0.0 ppm.
9	S-5	28-28-21-12	8-10'	2"		
10						End of boring at 10'
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Cobbles, Silt, Brick
Rock:	N/A
Well Depth:	N/A
Boring:	10'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-32 Sh 1 of 1
 Total Depth 4' Location Dorchester, MA Logged by Brian Miller
 Date Started March 25, 2002 Completed March 25, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	7"		Moist, brown, FINE-MEDIUM SAND, some gravel & crushed cobbles over brick. PID Headspace = 0.0 ppm.
2						
3	S-2		2-4'	7"		Moist, brown, FINE-MEDIUM SAND & BRICK over crushed white rock, some coal. PID Headspace = 2.6 ppm.
4						
5						End of boring at 4'
6						
7						
8						
9						
10						
11						
12						
13						
14						
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26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Brick
Rock:	N/A
Well Depth:	N/A
Boring:	4'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-33 Sh 1 of 1
 Total Depth 18' Location Dorchester, MA Logged by Brian Miller
 Date Started March 25, 2002 Completed March 25, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-1'	4"		Moist, brown, FINE-MEDIUM SAND, some cobbles, trace coal. PID Headspace = 0.0 ppm.
2						
3	S-2		1-3'	16"		Moist, brown, FINE-MEDIUM SAND, some cobbles, some coal. PID Headspace = 2 ppm.
4						
5	S-3		3-7'	15"		Wet, brown, FINE SAND & SILT with green/gray & black FINE SAND & SILT (some coal) over wet multicolored ash. PID Headspace = 0.00 ppm.
6						
7						
8						
9	S-4		7-11'	12"		Wet, gray, SILT, some gravel & cobbles (glacial till). PID Headspace = 0.0 ppm.
10						
11						
12						
13	S-5		11-15'	0"		No Recovery.
14						
15						
16	S-6		15-18'	6"		Wet, brown, FINE-COARSE SAND over gray, FINE SAND. PID Headspace = 0.0 ppm.
17						
18						
19						
20						End of boring at 18'
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Cobbles, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	18'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-34 Sh 1 of 1
 Total Depth 4' Location Dorchester, MA Logged by Brian Miller
 Date Started March 25, 2002 Completed March 25, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	4"		Moist, brown, FINE-MEDIUM SAND PID Headspace = 0.0 ppm.
2						
3	S-2		2-4'	12"		Dry, tan/gray, FINE SAND & crushed gravel/cobbles. PID Headspace = 0.0 ppm.
4						
5						
6						
7						End of boring at 4'
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand
Rock:	N/A
Well Depth:	N/A
Boring:	4'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900.00 Client MDC BORING B-35 Sh 1 of 1

Total Depth 18' Location Dorchester, MA Logged by Brian Miller

Date Started March 25, 2002 Completed MARCH 25, 2002 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	2"		White crushed COBBLES over brown, FINE SAND. PID Headspace = 0.0 ppm.
2						
3	S-2		2-4'	8"		Moist, brown, FINE SAND, some gravel & cobbles. PID Headspace = 0.0 ppm.
4						
5	S-3		4-7'	15"		Wet, brown/black/gray FINE-COARSE SAND (fill). coal and brick noted. PID Headspace = 0.0 ppm.
6						
7						
8						
9	S-4		7-11'	20"		Wet, brown, FINE-COARSE SAND, Some Silt & brick over green/gray silt (glacial till). PID Headspace = 1.6 ppm.
10						
11						
12						
13	S-5		11-15'	5"		Wet, brown/gray SILT. PID Headspace = 0.8 ppm.
14						
15						
16	S-6		15-18'	12"		Wet, gray/green SILT, trace gravel. PID Headspace = 1.2 ppm.
17						
18						
19						
20						End of boring at 18'
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Cobbles, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	12'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-36 Sh 1 of 1
 Total Depth 15' Location Dorchester, MA Logged by Brian Miller
 Date Started March 25, 2002 Completed March 25, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	5"		Dry, Black/gray, FINE SAND, some coal. PID Headspace = 13 ppm.
2						
3	S-2		2-4'	5"		Dry crushed BRICK PID Headspace = 2 ppm.
4						
5	S-3		4-7'	5"		Wet, brown, FINE-COARSE SAND & GRAVEL, some silt & brick. PID Headspace = 0.0 ppm.
6						
7						
8						Wet, brown, SILT, trace gravel. (glacial till). PID Headspace = 1.6 ppm.
9	S-4		7-11'	2"		
10						
11						Wet, brown, FINE SAND, some coal, over gray, SILT, some cobbles. PID Headspace = 0.8 ppm.
12						
13	S-5		11-15'	28"		
14						End of boring at 15'
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Gravel, Silt, Brick
Rock:	N/A
Well Depth:	N/A
Boring:	15'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-37 Sh 1 of 1
 Total Depth 18' Location Dorchester, MA Logged by Brian Miller
 Date Started March 25, 2002 Completed March 25, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-2'	10"		Moist, tan/gray, FINE-MEDIUM SAND, some gravel & cobbles. PID Headspace = 13 ppm.
2						
3	S-2		2-4'	10"		Moist black COAL, some fine-medium sand. PID Headspace = 5.6 ppm.
4						
5	S-3		4-7'	4"		Moist, black/brown FINE-MEDIUM SAND with some gravel & coal. PID Headspace = 0.8 ppm.
6						
7						
8						
9	S-4		7-11'	3"		Wet, black/brown, FINE SAND, some gravel & cobbles. PID Headspace = 0.0 ppm.
10						
11						
12						
13	S-5		11-15'	6"		Wet, dark brown/black, FINE SAND, trace cobbles. PID Headspace = 0.0 ppm.
14						
15						
16	S-5		15-18'	15"		Wet, brown, FINE-COARSE SAND, over gray SILT & COBBLES (till). PID Headspace = 1.6 ppm.
17						
18						
19						
20						
21						
22						
23						End of boring at 18'
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Coal, Silt, Cobbles
Rock:	N/A
Well Depth:	N/A
Boring:	18'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-38 Sh 1 of 1
 Total Depth 13' Location Dorchester, MA Logged by Brian Miller
 Date Started March 25, 2002 Completed March 25, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 In.	Depth Range	Rec.		
1	S-1		0-2'	4"		Dry, brown, FINE SAND & CRUSHED COBBLES. PID Headspace = 0.8 ppm.
2						
3	S-2		2-4'	5"		Crushed red BRICK, some brown fine sand. PID Headspace = 0.4 ppm.
4						
5	S-3		4-7'	3"		Moist, brown, FINE-MEDIUM SAND, some brick. PID Headspace = 2.0 ppm.
6						
7						Wet, tan, FINE-MEDIUM SAND, trace brick over MEDIUM-COARSE SAND, GRAVEL, and COBBLES. PID Headspace = 0.0 ppm.
8						
9	S-4		7-11'	10"		
10						
11						Wet, tan, FIEN-MEDIUM SAND, GRAVEL & COBBLES. PID Headspace = 0.0 ppm.
12						
13	S-5		11-13'	6"		
14						
15						End of boring at 13'
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Cobbles, Gravel, Brick
Rock:	N/A
Well Depth:	N/A
Boring:	13'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-39 Sh 1 of 1
 Total Depth 12.5' Location Dorchester, MA Logged by Brian Miller
 Date Started March 25, 2002 Completed March 25, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	20"		Dry, brown, FINE SAND, trace gravel, over CRUSHED BRICK & COAL. PID Headspace = 0.4 ppm.
2						
3						
4	S-2		4-7'	20"		Moist, tan, FINE-MEDIUM SAND, some brick over tan SILT. PID Headspace = 0.0 ppm.
5						
6						
7	S-3		7-11'	6"		Wet, tan, COBBLES, GRAVEL & SILT. PID Headspace = 0.0 ppm.
8						
9						
10	S-4		11-12.5'	18"		Wet, tan, FINE-COARSE SAND, GRAVEL & SILT over tan SILT. PID Headspace = 0.0 ppm.
11						
12						
13						Refusal at 12.5'
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Silt, Gravel, Cobbles
Rock:	N/A
Well Depth:	N/A
Boring:	12.5'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-40 Sh 1 of 1
 Total Depth 9' Location Dorchester, MA Logged by Brian Miller
 Date Started March 25, 2002 Completed March 25, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	20"		Moist, brown, FINE SAND & COBBLES over gray, SILT with some gravel & cobbles. PID Headspace = 1.6 ppm.
2						
3						
4	S-2		4-7'	8"		Moist, brown, SILT, trace gravel. PID Headspace = 0.0 ppm.
5						
6						
7	S-3		7-9'	7"		Wet, brown, FINE SAND, some cobbles & gravel. PID Headspace = 0.0 ppm.
8						
9						
10						Refusal at 9'
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden: Sand, Silt, Cobbles
Rock: N/A
Well Depth: N/A
Boring: 9'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-41 Sh 1 of 1

Total Depth 7.5' Location Dorchester, MA Logged by Brian Miller

Date Started March 26, 2002 Completed March 26, 2002 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	4-10-8-12	0-2'	4"		Asphalt 0-2"
2						Moist, brown & dark brown, FINE-MEDIUM SAND, some gravel, trace coal & brick. PID Headspace = 0.0 ppm.
3						
4						
5	S-2	33-50/1"	5-7'	4"		
6						Moist, dark brown, FINE-MEDIUM SAND, some gravel (cobble at end of spoon). PID Headspace = 1.2 ppm.
7						
8						
9						Refusal at 7.5'
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand
Rock:	N/A
Well Depth:	N/A
Boring:	7.5'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-42 Sh 1 of 1
 Total Depth 17.5' Location Dorchester, MA Logged by Brian Miller
 Date Started March 26, 2002 Completed March 26, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1	50/3"	0-2'	4"		Asphalt 0-2"
2						Moist, dark brown, FINE-MEDIUM SAND, trace gravel over red BRICK. PID Headspace = 0.0 ppm.
3						
4						
5	S-2	16-18-18-27	5-7'	20"		
6						Moist, red BRICK & COAL over FINE-COARSE SAND & GRAVEL (till). PID Headspace = 2.0 ppm.
7						
8						
9	S-3	9-6-6-9	10-12'	18"		
10						Wet, tan, FINE-COARSE SAND, trace gravel. PID Headspace = 0.0 ppm.
11						
12						
13	S-4	6-9-12-20	15-17'	15"		
14						Wet, tan SILT and FINE-COARSE SAND. PID Headspace = 0.0 ppm.
15						
16						
17						Refusal at 17.5'
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Brick, Coal, Gravel
Rock:	N/A
Well Depth:	N/A
Boring:	17.5'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900.00 Client MDC BORING B-43 Sh 1 of 1

Total Depth 16' Location Dorchester, MA Logged by Brion Miller

Date Started March 27, 2002 Completed March 27, 2002 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1						Asphalt 0-2"
2	S-1		0-4'	15"		Moist, brown/black FINE-MEDIUM SAND over gray ASH & COAL, trace gravel. PID Headspace = 1.2 ppm.
3						
4						
5						
6	S-2		4-8'	4"		Wet, black/tan/orange, FINE SAND & GRAVEL, trace cobbles & coal. PID Headspace = 0.8 ppm.
7						
8						
9						
10	S-3		8-12'	20"		Wet, dark brown/black, FINE-MEDIUM SAND, trace gravel, over organic PEAT, over tan/gray, FINE SAND, SILT, & GRAVEL (till). PID Headspace = 0.0 ppm.
11						
12						
13						
14	S-4		12-16'	8"		Wet, tan, FINE SAND & GRAVEL (till). PID Headspace = 0.0 ppm.
15						
16						
17						
18						End of Boring at 16'
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel, Silt, Coal
Rock:	N/A
Well Depth:	N/A
Boring:	16'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-44 Sh 1 of 1
 Total Depth 16' Location Dorchester, MA Logged by Brian Miller
 Date Started March 27, 2002 Completed March 27, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	15"		Asphalt 0-2"
2						Dry-moist, brown/tan, FINE SAND, some cobbles, over BRICK. PID Headspace = 0.0 ppm.
3						
4						
5	S-2		4-8'	2"		
6						Moist, crushed BRICK, and dark brown/black SAND (coal). PID Headspace = 2.4 ppm.
7						
8						
9	S-3		8-12'	12"		
10						Wet, gray, FINE-MEDIUM SAND, SILT, some gravel. PID Headspace = 0.0 ppm.
11						
12						
13	S-4		12-16'	25"		
14						Wet, gray, FINE-COARSE SAND & GRAVEL over tan, FINE-COARSE SAND & GRAVEL (till): PID Headspace = 0.0 ppm.
15						
16						
17						
18						End of boring at 16'
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

Overburden:	Sand, Gravel, Brick, Silt
Rock:	N/A
Well Depth:	N/A
Boring:	16'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-45 Sh 1 of 1

Total Depth 16' Location Dorchester, MA Logged by Brian Miller

Date Started March 27, 2002 Completed March 27, 2002 Contractor Soil Exploration Corp.

Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	14"		Asphalt 0-2"
2						Moist, brown, FINE-MEDIUM SAND, some cobbles, over BRICK & trace dark brown/black COAL PID Headspace = 1.2 ppm.
3						
4						
5	S-2		4-8'	4"		
6						Wet, brown/black SAND, COAL, trace brick.
7						PID Headspace = 2.0 ppm.
8						
9	S-3		8-12'	6"		
10						Wet, tan/orange, FINE-COARSE SAND & GRAVEL.
11						PID Headspace = 0.0 ppm.
12						
13	S-4		12-16'	20"		
14						Wet, tan, FINE-COARSE SAND, some gravel.
15						PID Headspace = 1.2 ppm.
16						
17						
18						End of boring at 16'
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements			
Date	Time	Depth to Groundwater	Measuring Point

Summary	
Overburden:	Sand, Brick, Coal, Gravel
Rock:	N/A
Well Depth:	N/A
Boring:	16'

TEST BORING LOG

CDW CONSULTANTS, INC.

Project No. 900 Client MDC BORING B-46 Sh 1 of 1
 Total Depth 16' Location Dorchester, MA Logged by Brian Miller
 Date Started March 27, 2002 Completed March 27, 2002 Contractor Soil Exploration Corp.
 Casing ID N/A Ground Elevation N/A

Remarks

Depth Feet	Sample				Strata Change	Sample Description
	Type & Number	Blows per 6 in.	Depth Range	Rec.		
1	S-1		0-4'	5"		Moist, l. brown, FINE-MEDIUM SAND, some cobbles, gravel & brick. PID Headspace = 0.0 ppm.
2						
3						
4						
5	S-2		4-8'	15"		Wet, tan FIEN-MEDIUM SAND, some osh and bands of coal & brick. Some silt. PID Headspace = 67 ppm.
6						
7						
8						
9	S-3		8-12'	15"		Wet, black/gray, FINE-MEDIUM SAND, over organic PEAT. PID Headspace = 0.0 ppm.
10						
11						
12						
13	S-4		12-16'	0"		No recovery.
14						
15						
16						
17						End of boring at 16'
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						

Groundwater Measurements

Date	Time	Depth to Groundwater	Measuring Point

Summary

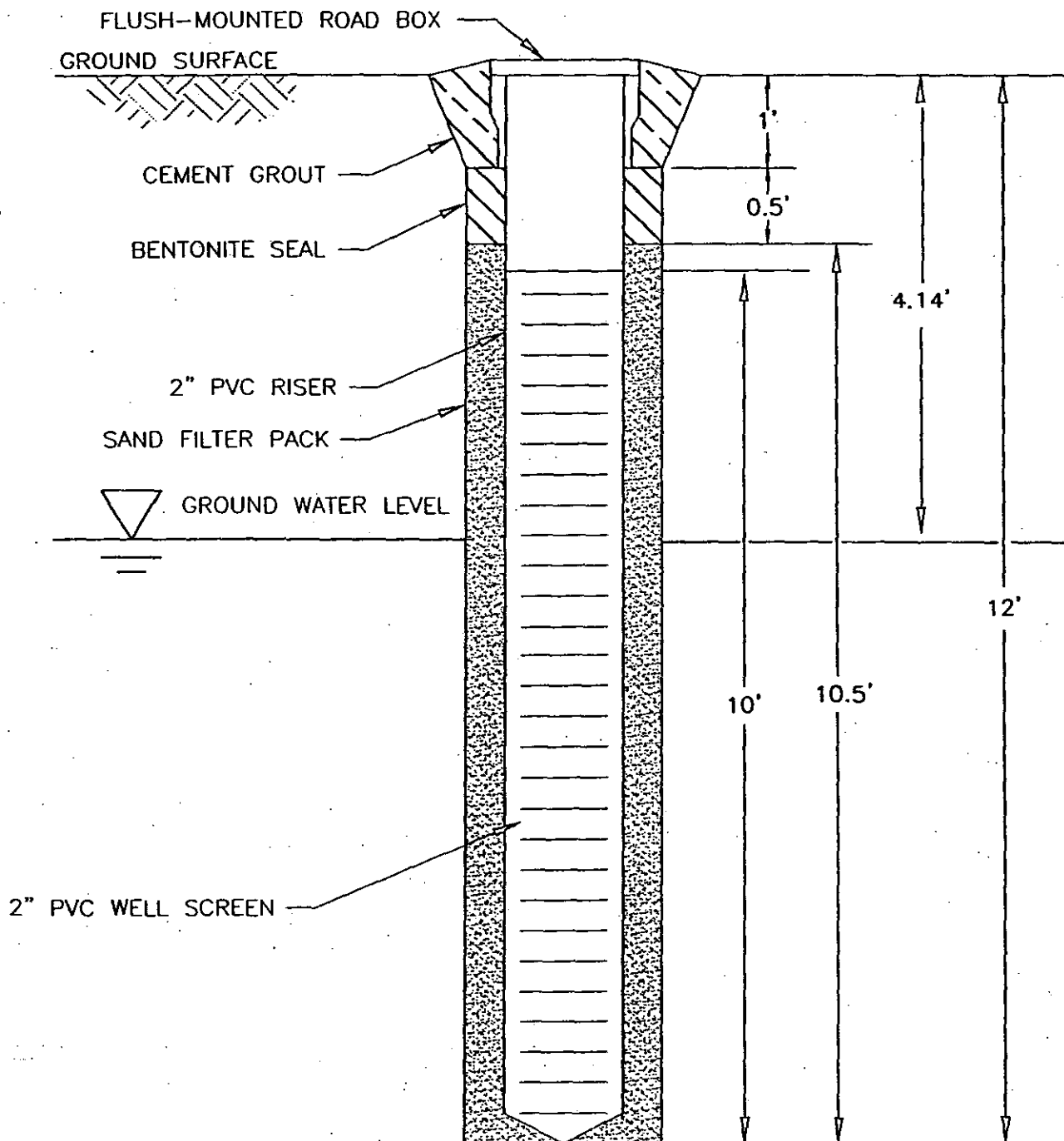
Overburden:	Sand, Peat.
Rock:	N/A
Well Depth:	N/A
Boring:	16'

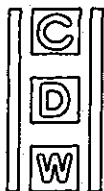


CDW CONSULTANTS, INC
Civil & Environmental Engineers
111 Speen Street, Suite 119
Framingham, MA 01701

BORING: CDW-1
Project No.: 900.00
Total Depth: 12'
Date Completed: 12/12/01
Location: 140 Granite Ave., Dorchester, MA
Remarks: Screened in Overburden

WELL CONSTRUCTION DIAGRAM

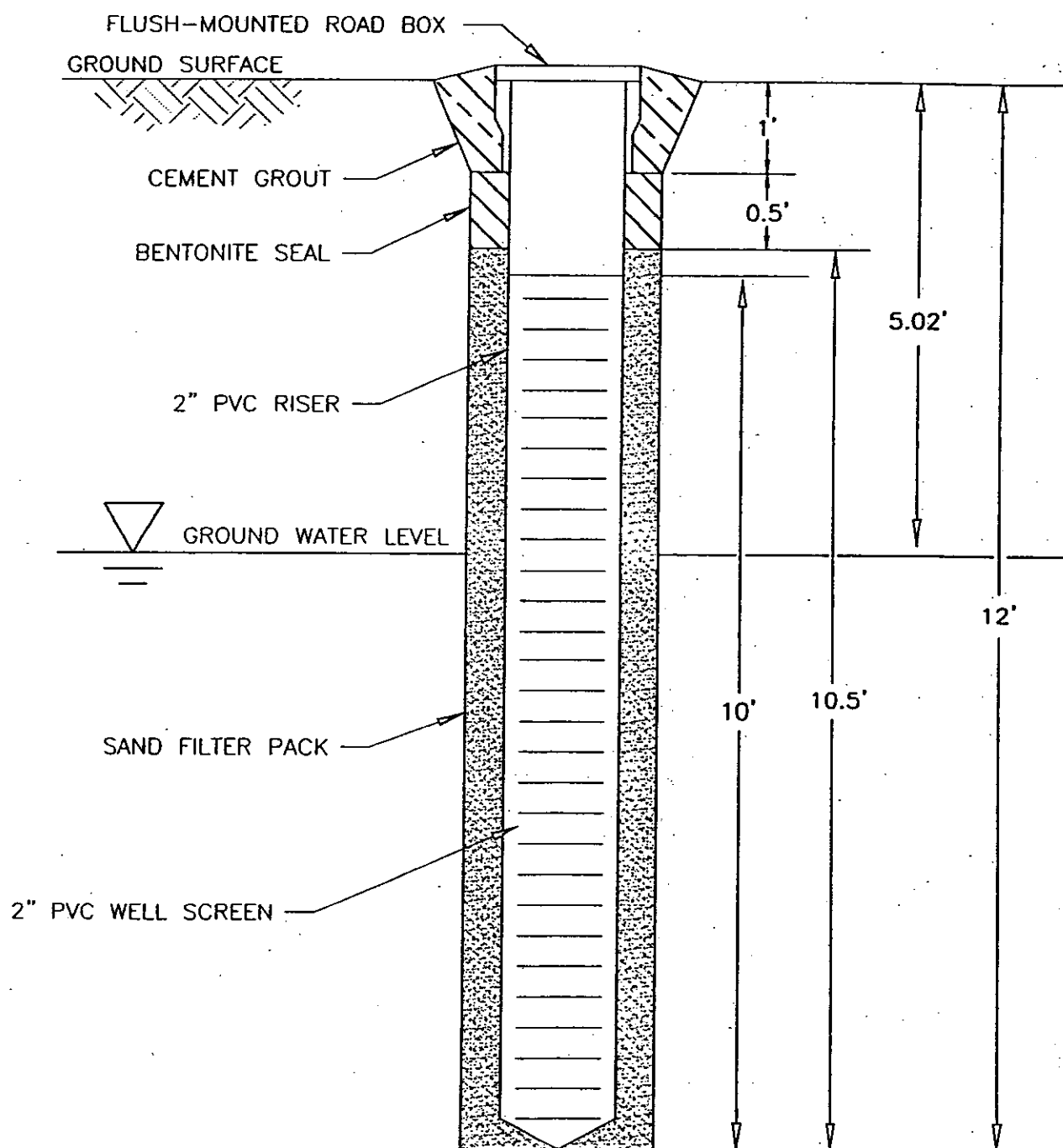


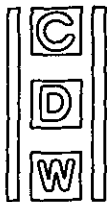


Civil & Environmental Engineers
111 Speen Street, Suite 119
Framingham, MA 01701

BORING: CDW-2
Project No.: 900.00
Total Depth: 12'
Date Completed: 12/12/01
Location: 140 Granite Ave., Dorchester, MA
Remarks: Screened in Overburden

WELL CONSTRUCTION DIAGRAM





Civil & Environmental Engineers
111 Speen Street, Suite 119
Framingham, MA 01701

BORING: CDW-7

Project No.: 900.00

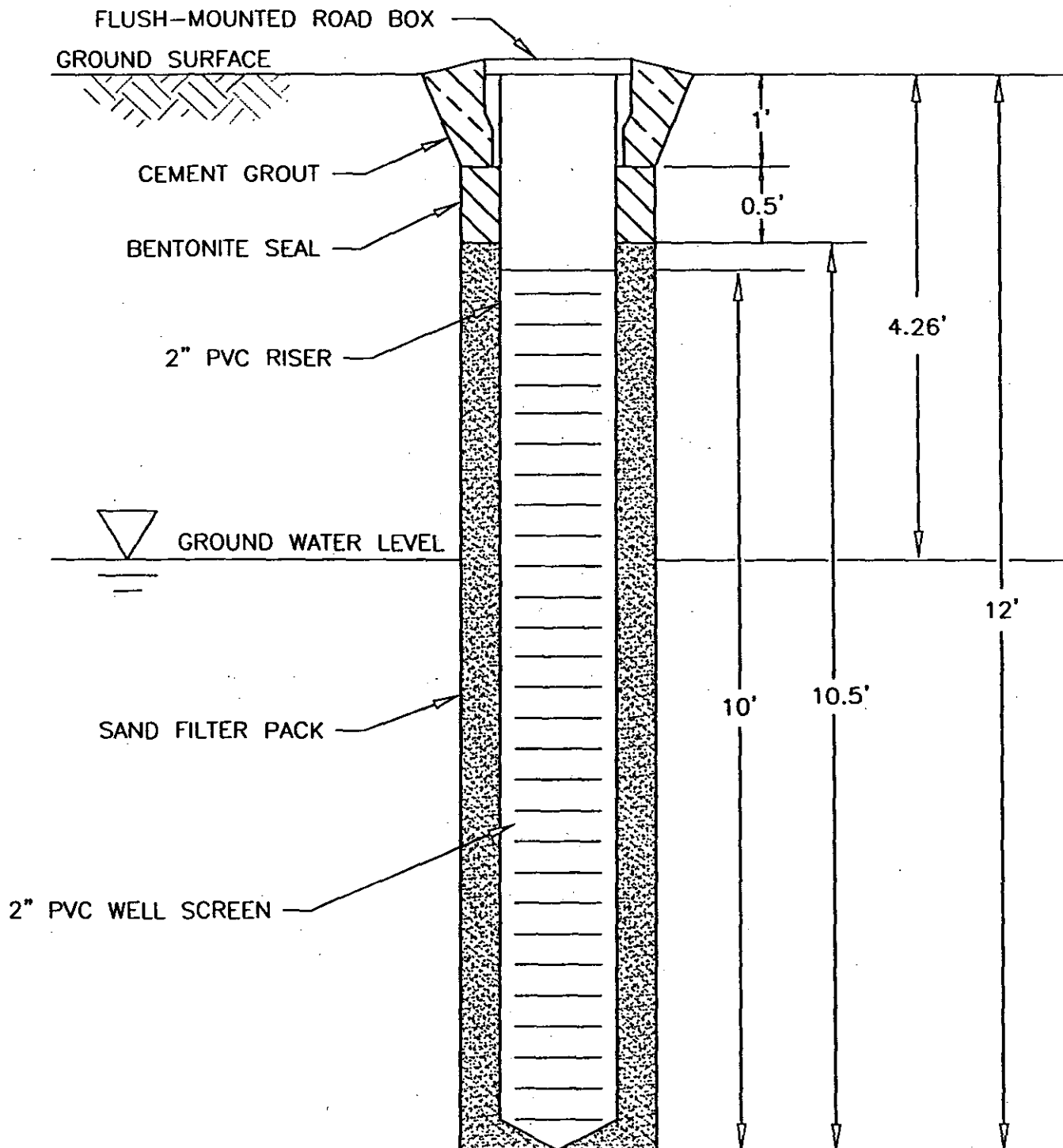
Total Depth: 12'

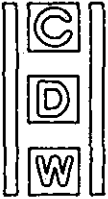
Date Completed: 3/26/02

Location: 140 Granite Ave., Dorchester, MA

Remarks: Screened in Overburden

WELL CONSTRUCTION DIAGRAM

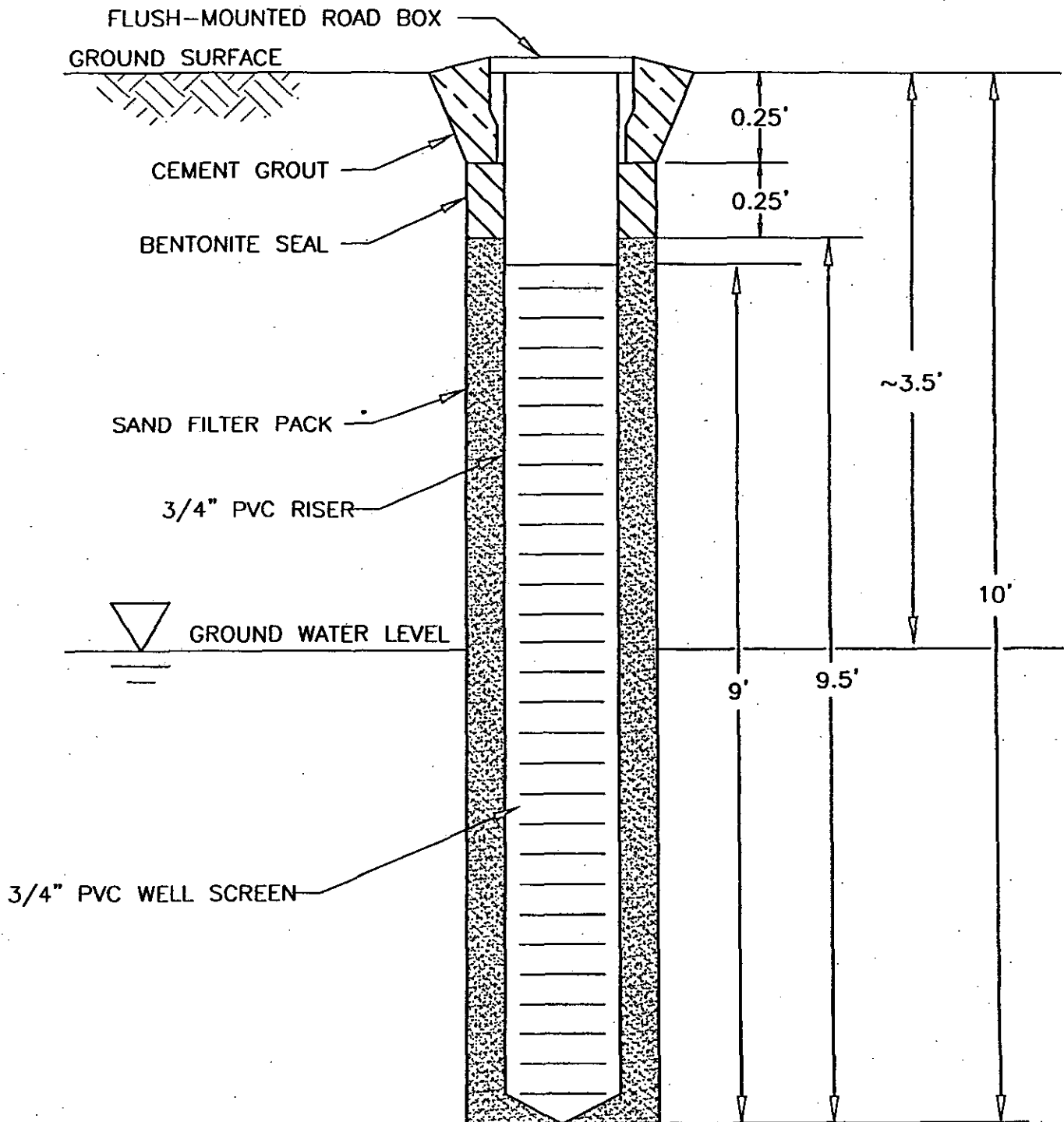




Civil & Environmental Engineers
111 Speen Street, Suite 119
Framingham, MA 01701

BORING: CDW-8
Project No.: 900.00
Total Depth: 10'
Date Completed: 3/27/02
Location: 140 Granite Ave., Dorchester, MA
Remarks: Screened in Overburden

WELL CONSTRUCTION DIAGRAM



APPENDIX D
SLUG TEST RESULTS

SLUG TEST

Hvorslev's formula for permeability:

$$K = \frac{r^2 \ln(L/R)}{2LT_o}$$

Where: K = Permeability
r = Well Radius
L = Length of the intake area
R = Radius of the intake area
T_o = Basic Time Lag (obtained graphically)

TABLE OF WELL DATA

WELL #	r (ft)	L (ft)	R (ft)	T _o (min)	K (ft/min)	K (ft/day)
CDW-1	0.083	8.23	0.167	10.85	1.5 x 10 ⁻⁴	0.216
CDW-4	0.083	6.22	0.167	6.5	3.07 x 10 ⁻⁴	0.442

SLUG TEST DATA CALCULATIONS

CDW-1

$$L/R = 8.23/0.167$$

$$\ln(L/R) = \ln 49.28$$

$$r^2 \ln(L/R) = (0.083)(0.083)(3.89)$$

$$2LT_o = (2)(8.23)(10.85)$$

$$K = 0.0267982/178.59$$

CDW-4

$$L/R = 6.22/0.167$$

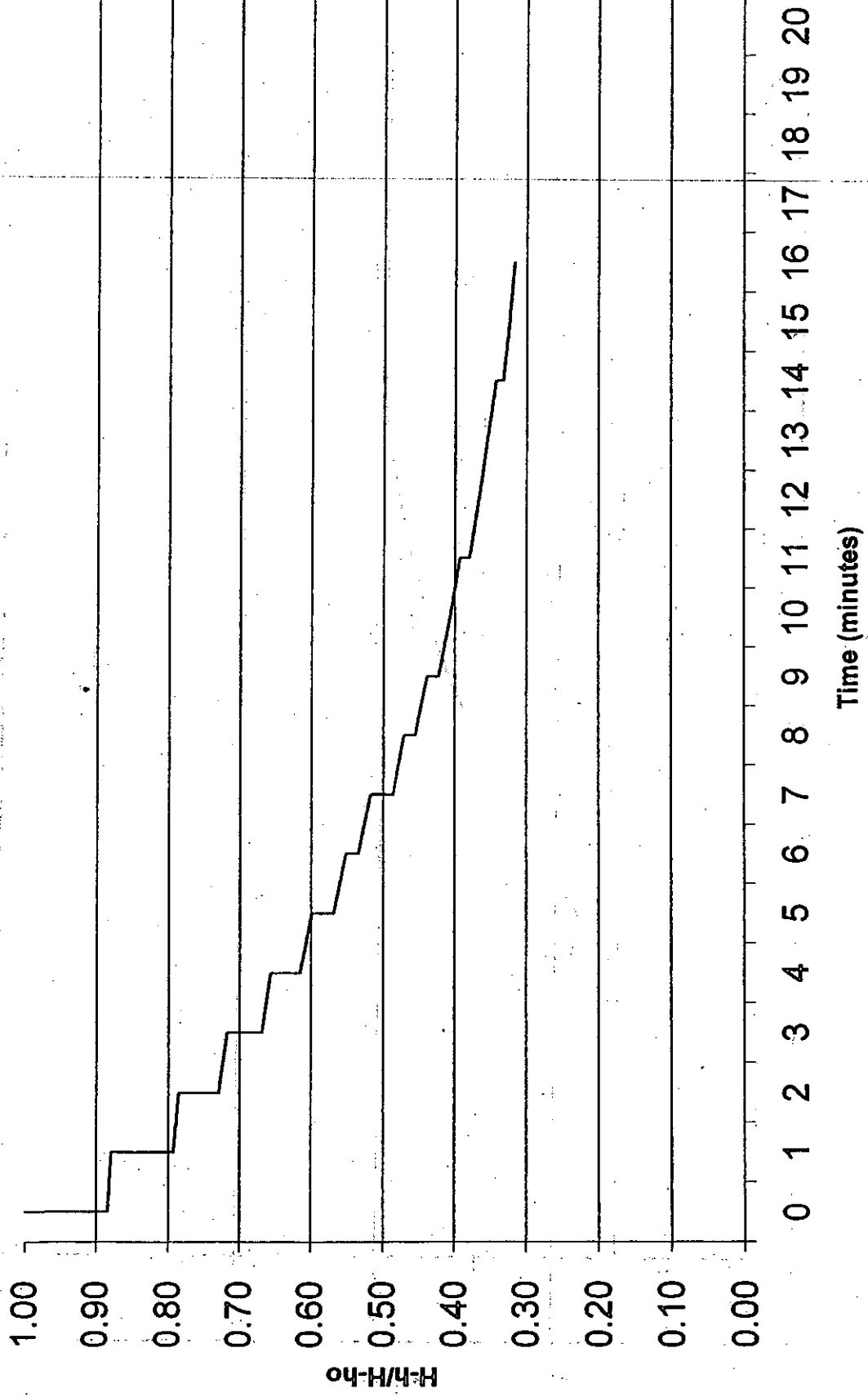
$$\ln(L/R) = \ln 37.24$$

$$r^2 \ln(L/R) = (0.083)(0.083)(3.61)$$

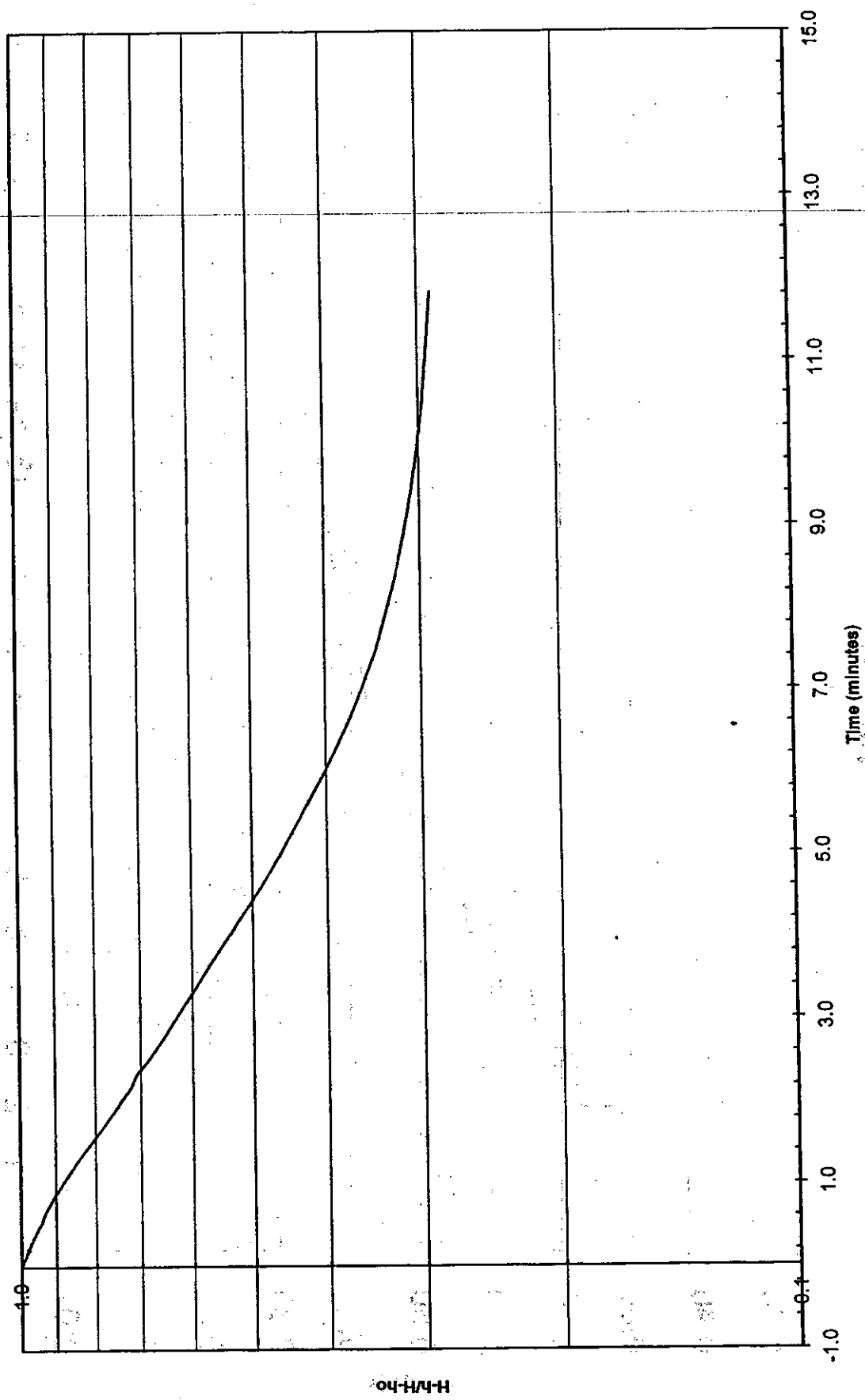
$$2LT_o = (2)(6.22)(6.5)$$

$$K = 0.0248692/80.86$$

CDW-1



CDW-4



APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY RECORDS

CDW CONSULTANTS, INC.



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

CDW Consultants, Inc.
111 Speen Street - Suite 119
Framingham, MA 01701

Attn: Kathleen Campbell

Client Project Number: 900



Monday, December 31, 2001

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

AC87785

B-3/S-1

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87786

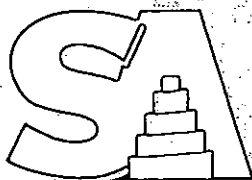
B-5/S-2

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87787

B-8/S-2

Ultrasonic Extraction
EPH Aliphatics/Aromatics



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

AC87787

B-8/S-2

EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87788

B-10/S-1

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87789

B-19/S-1

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87790

B-21/S-1

Ultrasonic Extraction



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

AC87790

B-21/S-1

EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87791

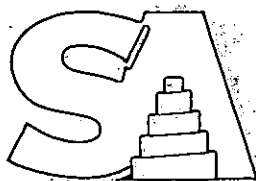
B-26/S-2

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AC87792

CDW-3/S-2

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids



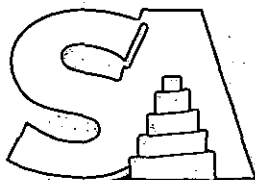
SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: Fmr Sax Property - MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AC87793	Dup	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes VOC Extraction (solid) VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS Metals Digestion Mercury Digestion Total PP13 Metals Total Mercury % Solids
AC87794	Blank	VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS
AC87795	PCB-1	Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC Ultrasonic Extraction PAHs by GC/MS % Solids
AC87796	PCB-2	Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC Ultrasonic Extraction PAHs by GC/MS % Solids
AC87797	PCB-3	Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC Ultrasonic Extraction PAHs by GC/MS % Solids
AC87798	PCB-4	Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC Ultrasonic Extraction PAHs by GC/MS % Solids



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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Authorized by

Hanibal C. Tayeh, Ph.D.

President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Fmr Sax Property - MA

Client: CDW

Lab ID No: AC87785

Client Id: B-3/S-1

Client Project No: 900

Submittal Date: 12/13/01

Collection Date: 12/10/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/10/01		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1400	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	700	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	350	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
2,2-Dichloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B

Lab ID No: AC87785
Client Id: B-3/S-1

Collection Date: 12/10/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
1,2-Dichloropropane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	700	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	700	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	140	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	70.0	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	102	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	104	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.05	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.350	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.350	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.05	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.350	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Aliphatics/Aromatics						
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	140	12/21/01	RLJ	MA VPH 97-12
o-Xylene	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	70	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	93	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	101	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/14/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	120	mg/Kg	30	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Phenanthrene	390	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Fluoranthene	610	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Pyrene	560	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	350	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Chrysene	470	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	920	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	410	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	610	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	430	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	150	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	400	ug/Kg	150	12/27/01	MB	MA EPH 98-1

Lab ID No: AC87785
Client Id: B-3/S-1

Collection Date: 12/10/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
1-Chloro-octadecane Aliphatic (%SR)	81	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	67	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	87	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	88	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Metals Preparation						
Mercury Digestion	Completed			12/21/01	LFR	EPA 245.1
Metals Digestion	Completed			12/21/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	20.9	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	2.95	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.491	12/27/01	RE	EPA 200.7
Total Cadmium	1.59	mg/Kg	0.491	12/27/01	RE	EPA 200.7
Total Chromium	19.3	mg/Kg	0.982	12/27/01	RE	EPA 200.7
Total Copper	326	mg/Kg	0.982	12/27/01	RE	EPA 200.7
Total Lead	399	mg/Kg	1.47	12/27/01	RE	EPA 200.7
Total Nickel	22.8	mg/Kg	0.982	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.91	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.96	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	5.40	12/27/01	RE	EPA 200.7
Total Zinc	400	mg/Kg	0.982	12/27/01	RE	EPA 200.7
Total Mercury	0.304	mg/Kg	0.196	12/22/01	EP	EPA 245.1
% Solids	91.1	%		12/14/01	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/10/01		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	2380	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	595	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	240	12/21/01	RLJ	SW846 8260B
Naphthalene	290	ug/Kg	119	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	107	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	102	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	105	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	29.2	mg/Kg	1.78	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	11.7	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	29.2	mg/Kg	1.78	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	12.0	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	240	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Naphthalene	290	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	120	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	77	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	107	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/14/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	64	mg/Kg	50	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	600	mg/Kg	50	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	75	mg/Kg	50	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	130	mg/Kg	50	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	330	ug/Kg	230	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Acenaphthene	950	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Fluorene	980	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Phenanthrene	7,300	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Anthracene	2,000	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Fluoranthene	6,700	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Pyrene	5,400	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	3,400	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Chrysene	3,500	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	6,700	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	2,500	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	5,300	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	3,900	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	230	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	4,500	ug/Kg	230	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	81	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	47	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	76	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	72	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87786
Client Id: B-5/S-2

Collection Date: 12/10/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/21/01	LFR	EPA 245.1
Metals Digestion	Completed			12/21/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.20	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.20	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.533	12/27/01	RE	EPA 200.7
Total Cadmium	19.2	mg/Kg	0.533	12/27/01	RE	EPA 200.7
Total Chromium	84.3	mg/Kg	1.07	12/27/01	RE	EPA 200.7
Total Copper	13,600	mg/Kg	1.07	12/27/01	RE	EPA 200.7
Total Lead	21,800	mg/Kg	1.60	12/27/01	RE	EPA 200.7
Total Nickel	151	mg/Kg	1.07	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.20	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.13	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.20	12/27/01	RE	EPA 200.7
Total Zinc	23,100	mg/Kg	1.07	12/27/01	RE	EPA 200.7
Total Mercury	0.908	mg/Kg	0.199	12/22/01	EP	EPA 245.1
% Solids	79.6	%		12/14/01	RT	SM2540 B Mod

Lab ID No: AC87787

Client Id: B-8/S-2

Collection Date: 12/10/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/10/01		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3800	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1900	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	950	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1900	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1900	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Toluene	210	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	380	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	190	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	95	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	2.85	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.950	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.950	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	2.85	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.950	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
Toluene	210	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	380	12/21/01	RLJ	MA VPH 97-12

Lab ID No: AC87787

Client Id: B-8/S-2

Collection Date: 12/10/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
p-Xylene	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	74	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	95	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/14/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	140	mg/Kg	50	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	780	mg/Kg	50	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	510	mg/Kg	50	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	510	mg/Kg	50	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	240	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	93	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	81	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	95	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	92	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Metals Preparation						

Lab ID No: AC87787
Client Id: B-8/S-2

Collection Date: 12/10/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PPI3 Metals						
Total Antimony	Below det lim	mg/Kg	3.95	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.95	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.658	12/27/01	RE	EPA 200.7
Total Cadmium	1.17	mg/Kg	0.658	12/27/01	RE	EPA 200.7
Total Chromium	10.5	mg/Kg	1.32	12/27/01	RE	EPA 200.7
Total Copper	62.0	mg/Kg	1.32	12/27/01	RE	EPA 200.7
Total Lead	79.0	mg/Kg	1.97	12/27/01	RE	EPA 200.7
Total Nickel	15.0	mg/Kg	1.32	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.95	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.63	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.95	12/27/01	RE	EPA 200.7
Total Zinc	574	mg/Kg	1.32	12/27/01	RE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.240	12/22/01	EP	EPA 245.1
% Solids	68.6	%		12/14/01	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/10/01		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	2380	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	140	ug/Kg	119	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	595	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	238	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Ethylbenzene	120	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1190	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	240	12/21/01	RLJ	SW846 8260B
Naphthalene	180	ug/Kg	119	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Toluene	280	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	380	ug/Kg	119	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	560	ug/Kg	238	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	119	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	96	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.78	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	1.5	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	1.6	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	2.2	mg/Kg	1.78	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	3.1	mg/Kg	0.595	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
Toluene	280	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	120	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	560	ug/Kg	38	12/21/01	RLJ	MA VPH 97-12

Lab ID No: AC87788

Collection Date: 12/10/01

Client Id: B-10/S-1

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Target Analytes						
p-Xylene	Below det lim	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
Naphthalene	180	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	19	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	72	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
1-Bromofluorobenzene (%SR) GCMS	96	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/14/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	300	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Phenanthrene	310	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzofluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	51	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	44	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
1-Bromonaphthalene Fractionation (%SR)	82	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	77	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.43	12/27/01	RE	EPA 200.7
Total Arsenic	35.7	mg/Kg	3.43	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.571	12/27/01	RE	EPA 200.7
Total Cadmium	12.4	mg/Kg	0.571	12/27/01	RE	EPA 200.7
Total Chromium	45.7	mg/Kg	1.14	12/27/01	RE	EPA 200.7
Total Copper	41,700	mg/Kg	1.14	12/27/01	RE	EPA 200.7
Total Lead	49,000	mg/Kg	1.71	12/27/01	RE	EPA 200.7
Total Nickel	85.6	mg/Kg	1.14	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.43	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.28	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.43	12/27/01	RE	EPA 200.7
Total Zinc	54,500	mg/Kg	1.14	12/27/01	RE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.198	12/22/01	EP	EPA 245.1
% Solids	79.4	%		12/14/01	RT	SM2540 B Mod

Lab ID No: AC87789

Client Id: B-19/S-1

Collection Date: 12/11/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/11/01		SW846 5035
Volatile Organic Compounds						
OCs by GC/MS						
Acetone	Below det lim	ug/Kg	2180	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1090	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	545	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
1-Chlorotoluene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1090	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1090	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	770	12/21/01	RLJ	SW846 8260B
Naphthalene	240	ug/Kg	109	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	218	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	109	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	103	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.63	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	0.55	mg/Kg	0.545	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.545	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.63	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	0.71	mg/Kg	0.545	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	220	12/21/01	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
p-Xylene	Below det lim	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
Naphthalene	240	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	110	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	82	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	101	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			12/18/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	110	mg/Kg	30	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	850	mg/Kg	30	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	219	mg/Kg	30	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	270	mg/Kg	30	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	170	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Acenaphthene	670	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Fluorene	730	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Phenanthrene	6,500	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Anthracene	2,200	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Fluoranthene	7,400	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Pyrene	5,800	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	3,200	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Chrysene	3,600	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	5,700	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	2,600	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	5,100	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	3,800	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	170	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	4,000	ug/Kg	170	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	55	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	57	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	97	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	88	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87789

Client Id: B-19/S-1

Collection Date: 12/11/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.15	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.15	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.525	12/27/01	RE	EPA 200.7
Total Cadmium	84.9	mg/Kg	0.525	12/27/01	RE	EPA 200.7
Total Chromium	135	mg/Kg	1.05	12/27/01	RE	EPA 200.7
Total Copper	4,100	mg/Kg	1.05	12/27/01	RE	EPA 200.7
Total Lead	12,500	mg/Kg	1.58	12/27/01	RE	EPA 200.7
Total Nickel	193	mg/Kg	1.05	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.15	12/27/01	RE	EPA 200.7
Total Silver	6.18	mg/Kg	2.10	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.15	12/27/01	RE	EPA 200.7
Total Zinc	31,700	mg/Kg	1.05	12/27/01	RE	EPA 200.7
Total Mercury	5.02	mg/Kg	0.187	12/22/01	EP	EPA 245.1
% Solids	84.6	%		12/18/01	AAS	SM2540 B Mod

Lab ID No: AC87790

Collection Date: 12/11/01

Client Id: B-21/S-1

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/11/01		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1580	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	790	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	395	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1-Chlorotoluene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	240	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	790	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	790	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	160	12/21/01	RLJ	SW846 8260B
Naphthalene	89	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	100	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	90	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	158	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	79.0	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	100	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	102	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	103	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.18	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	7.7	mg/Kg	0.395	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	0.58	mg/Kg	0.395	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.18	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	8.3	mg/Kg	0.395	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	160	12/21/01	RLJ	MA VPH 97-12

Lab ID No: AC87790

Collection Date: 12/11/01

Client Id: B-21/S-1

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
p-Xylene	Below det lim	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
Naphthalene	89	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	79	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	82	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
1-Bromofluorobenzene (%SR) GCMS	100	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Preparation						
Ultrasonic Extraction	Completed			12/18/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	2,300	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	5,100	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	843	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	846	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Phenanthrene	490	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Fluoranthene	540	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Pyrene	630	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	260	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Chrysene	360	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	550	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	400	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	200	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	81	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	60	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	93	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	86	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	960	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	960	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	200	12/21/01	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	192	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	96.0	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	105	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	106	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.44	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	2.2	mg/Kg	0.480	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.480	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.44	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	2.4	mg/Kg	0.480	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	190	12/21/01	RLJ	MA VPH 97-12

Lab ID No: AC87791
Client Id: B-26/S-2

Collection Date: 12/11/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
PH Target Analytes						
Xylene	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
Phthalene	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	96	12/21/01	RLJ	MA VPH 97-12
1,2-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
1,2-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
1,2-Dibromotoluene (%SR) GCMS	75	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Bromofluorobenzene (%SR) GCMS	105	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
PH Preparation						
Ultrasonic Extraction	Completed			12/18/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
PH Aliphatics/Aromatics						
C1-C18 Aliphatic Hydrocarbons	430	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C9-C36 Aliphatic Hydrocarbons	6,700	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C1-C22 Aromatic Hydrocarbons	1,500	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Adjusted C11-C22 Aromatics	1,500	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
PH Target PAH Analytes						
Phthalene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Methylnaphthalene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Naphthylene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Naphthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Anthrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Acene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Anthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo(a)anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo(b)fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo(k)fluoranthene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo(a)pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
1,2,3-cd) pyrene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo(a,h)anthracene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Benzo(h,i)perylene	Below det lim	ug/Kg	220	12/27/01	MB	MA EPH 98-1
Octadecane Aliphatic (%SR)	80	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Phenyl Aromatic (%SR)	82	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Phthalene Fractionation (%SR)	55	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Phenyl Fractionation (%SR)	53	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Lyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

paration

Lab ID No: AC87791
Client Id: B-26/S-2

Collection Date: 12/11/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.33	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.33	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.554	12/27/01	RE	EPA 200.7
Total Cadmium	4.79	mg/Kg	0.554	12/27/01	RE	EPA 200.7
Total Chromium	13.7	mg/Kg	1.11	12/27/01	RE	EPA 200.7
Total Copper	23.7	mg/Kg	1.11	12/27/01	RE	EPA 200.7
Total Lead	64.3	mg/Kg	1.66	12/27/01	RE	EPA 200.7
Total Nickel	14.3	mg/Kg	1.11	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.33	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.22	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.33	12/27/01	RE	EPA 200.7
Total Zinc	204	mg/Kg	1.11	12/27/01	RE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.174	12/22/01	EP	EPA 245.1
% Solids	88.2	%		12/18/01	AAS	SM2540 B M

Lab ID No: AC87792
Client Id: CDW-3/S-2

Collection Date: 12/12/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
YOC Preparation						
YOC Extraction (solid)	Field ext			12/12/01		SW846.5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	2960	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1480	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	740	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
1-Chlorotoluene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1480	12/21/01	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1480	12/21/01	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	300	12/21/01	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	296	12/21/01	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	148	12/21/01	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	99	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	102	ug/Kg	0.000	12/21/01	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	9.7	mg/Kg	2.22	12/21/01	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	2.2	mg/Kg	0.740	12/21/01	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.740	12/21/01	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	9.7	mg/Kg	2.22	12/21/01	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	2.3	mg/Kg	0.740	12/21/01	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	12/21/01	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	300	12/21/01	RLJ	MA VPH 97-12

Lab ID No: AC87792
Client Id: CDW-3/S-2

Collection Date: 12/12/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
p-Xylene	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	150	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	73	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
p-Bromofluorobenzene (%SR) GCMS	99	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	12/21/01	RLJ	MA VPH 97-12
EPH Preparation						
Ultrasonic Extraction	Completed			12/19/01	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	340	mg/Kg	40	12/27/01	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	40	12/27/01	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	12/27/01	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Phenanthrene	1,000	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Anthracene	210	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Fluoranthene	1,100	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Pyrene	1,000	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Benzo (a) anthracene	460	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Chrysene	670	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Benzo (b) fluoranthene	870	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Benzo (k) fluoranthene	460	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Benzo (a) pyrene	790	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	500	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	180	12/27/01	MB	MA EPH 98-1
Benzo (g,h,i) perylene	610	ug/Kg	180	12/27/01	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	72	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	59	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	94	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	91	ug/Kg	0.	12/27/01	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	12/27/01	MB	MA EPH 98-1

Metals Preparation

Lab ID No: AC87792
Client Id: CDW-3/S-2

Collection Date: 12/12/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.10	12/27/01	RE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.10	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.517	12/27/01	RE	EPA 200.7
Total Cadmium	30.9	mg/Kg	0.517	12/27/01	RE	EPA 200.7
Total Chromium	94.8	mg/Kg	1.03	12/27/01	RE	EPA 200.7
Total Copper	1,900	mg/Kg	1.03	12/27/01	RE	EPA 200.7
Total Lead	4,000	mg/Kg	1.55	12/27/01	RE	EPA 200.7
Total Nickel	146	mg/Kg	1.03	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.10	12/27/01	RE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.07	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.10	12/27/01	RE	EPA 200.7
Total Zinc	5,600	mg/Kg	1.03	12/27/01	RE	EPA 200.7
Total Mercury	4.16	mg/Kg	0.185	12/22/01	EP	EPA 245.1
% Solids	86.7	%		12/19/01	RT	SM2540 B Mod

Lab ID No: AC87793

Client Id: Dup

Collection Date: 12/11/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			12/11/01		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	2420	12/21/01	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1210	12/21/01	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	605	12/21/01	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	242	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	121	12/21/01	RLJ	SW846 8260B

Lab ID No: AC87793

Client Id: Dup

Collection Date: 12/11/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			12/22/01	LFR	EPA 245.1
Metals Digestion	Completed			12/22/01	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.28	12/27/01	RE	EPA 200.7
Total Arsenic	4.99	mg/Kg	3.28	12/27/01	RE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.546	12/27/01	RE	EPA 200.7
Total Cadmium	381	mg/Kg	0.546	12/27/01	RE	EPA 200.7
Total Chromium	165	mg/Kg	1.09	12/27/01	RE	EPA 200.7
Total Copper	6,200	mg/Kg	1.09	12/27/01	RE	EPA 200.7
Total Lead	38,500	mg/Kg	1.64	12/27/01	RE	EPA 200.7
Total Nickel	181	mg/Kg	1.09	12/27/01	RE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.28	12/27/01	RE	EPA 200.7
Total Silver	322	mg/Kg	2.18	12/27/01	RE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.28	12/27/01	RE	EPA 200.7
Total Zinc	30,900	mg/Kg	1.09	12/27/01	RE	EPA 200.7
Total Mercury	0.574	mg/Kg	0.204	12/22/01	EP	EPA 245.1
% Solids	83.5	%		12/18/01	AAS	SM2540 B Mod

Lab ID No: AC87794

Client Id: Blank

Collection Date: 12/10/01

Matrix: Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	1000	12/17/01	GW	SW846 8260B
Acrylonitrile	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Benzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Bromobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Bromochloromethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Bromoform	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Bromomethane	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	500	12/17/01	GW	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Carbon disulfide	Below det lim	ug/L	250	12/17/01	GW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Chlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Chloroethane	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
Chloroform	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Chloromethane	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Dibromomethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Ethylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	500	12/17/01	GW	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	500	12/17/01	GW	SW846 8260B
Methylene chloride	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Naphthalene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Styrene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Toluene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
Vinyl chloride	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	100	12/17/01	GW	SW846 8260B
o-Xylene	Below det lim	ug/L	50.0	12/17/01	GW	SW846 8260B
4-Bromofluorobenzene (%SR)	96	ug/L	0.000	12/17/01	GW	SW846 8260B
1,4-Difluorobenzene (%SR)	98	ug/L	0.000	12/17/01	GW	SW846 8260B
Chlorobenzene-d5 (%SR)	95	ug/L	0.000	12/17/01	GW	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.750	12/17/01	GW	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.250	12/17/01	GW	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.250	12/17/01	GW	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.750	12/17/01	GW	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.250	12/17/01	GW	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/L	0.	12/17/01	GW	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12
Toluene	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	100	12/17/01	GW	MA VPH 97-12
o-Xylene	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12
Naphthalene	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	50	12/17/01	GW	MA VPH 97-12

Lab ID No: AC87794

Client Id: Blank

Collection Date: 12/10/01

Matrix: Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
<i>VPH Target Analytes</i>						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	12/17/01	GW	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	12/17/01	GW	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	87	ug/L	0.	12/17/01	GW	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	99	ug/L	0.	12/17/01	GW	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/L	0.	12/17/01	GW	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			12/19/01	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>PAHs by GC/MS</i>						
Naphthalene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Phenanthrene	620	ug/Kg	157	12/27/01	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Fluoranthene	1,400	ug/Kg	157	12/27/01	MSL	SW846 8270C
Pyrene	1,800	ug/Kg	157	12/27/01	MSL	SW846 8270C
Benzo (a) anthracene	820	ug/Kg	157	12/27/01	MSL	SW846 8270C
Chrysene	920	ug/Kg	157	12/27/01	MSL	SW846 8270C
Benzo (b) fluoranthene	1,200	ug/Kg	157	12/27/01	MSL	SW846 8270C
Benzo (k) fluoranthene	820	ug/Kg	157	12/27/01	MSL	SW846 8270C
Benzo (a) pyrene	1,100	ug/Kg	157	12/27/01	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	770	ug/Kg	157	12/27/01	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	157	12/27/01	MSL	SW846 8270C
Benzo (g,h,i) perylene	920	ug/Kg	157	12/27/01	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	63	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Terphenyl-d14 (%SR)	52	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Semivolatile Organic Compounds						
<i>Organochlorine Pesticides by GC</i>						
Aldrin	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	30	12/19/01	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A

Lab ID No: AC87795

Client Id: PCB-1

Collection Date: 12/12/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Organochlorine Pesticides by GC						
Methoxychlor	Below det lim	ug/Kg	10	12/19/01	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	7.3	12/19/01	TG	SW846 8081A
Dioxaphene	Below det lim	ug/Kg	70	12/19/01	TG	SW846 8081A
Decachlorobiphenyl (%SR)	99	ug/Kg	0.	12/19/01	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
CB-1016	Below det lim	ug/Kg	29	12/19/01	TG	SW846 8082
CB-1221	Below det lim	ug/Kg	29	12/19/01	TG	SW846 8082
CB-1232	Below det lim	ug/Kg	29	12/19/01	TG	SW846 8082
CB-1242	Below det lim	ug/Kg	29	12/19/01	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	29	12/19/01	TG	SW846 8082
PCB-1254	450	ug/Kg	29	12/19/01	TG	SW846 8082
CB-1260	180	ug/Kg	29	12/19/01	TG	SW846 8082
Decachlorobiphenyl (%SR)	99	ug/Kg	0.00	12/19/01	TG	SW846 8082
% Solids	90.1	%		12/19/01	RT	SM2540 B Mod

Lab ID No: AC87796
Client Id: PCB-2

Collection Date: 12/12/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analysis	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			12/19/01	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>PAHs by GC/MS</i>						
Naphthalene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
Phenanthrene	1,200	ug/Kg	169	12/27/01	MSL	SW846 8270C
Anthracene	230	ug/Kg	169	12/27/01	MSL	SW846 8270C
Fluoranthene	2,200	ug/Kg	169	12/27/01	MSL	SW846 8270C
Pyrene	2,500	ug/Kg	169	12/27/01	MSL	SW846 8270C
Benzo (a) anthracene	1,100	ug/Kg	169	12/27/01	MSL	SW846 8270C
Chrysene	1,300	ug/Kg	169	12/27/01	MSL	SW846 8270C
Benzo (b) fluoranthene	1,300	ug/Kg	169	12/27/01	MSL	SW846 8270C
Benzo (k) fluoranthene	970	ug/Kg	169	12/27/01	MSL	SW846 8270C
Benzo (a) pyrene	1,200	ug/Kg	169	12/27/01	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	820	ug/Kg	169	12/27/01	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	169	12/27/01	MSL	SW846 8270C
Benzo (g,h,i) perylene	910	ug/Kg	169	12/27/01	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	49	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Terphenyl-d14 (%SR)	79	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Semivolatile Organic Compounds						
<i>Organochlorine Pesticides by GC</i>						
Aldrin	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	30	12/19/01	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A

Lab ID No: AC87796

Client Id: PCB-2

Collection Date: 12/12/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Organochlorine Pesticides by GC						
Methoxychlor	Below det lim	ug/Kg	10	12/19/01	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	7.1	12/19/01	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	70	12/19/01	TG	SW846 8081A
Decachlorobiphenyl (%SR)	88	ug/Kg	0.	12/19/01	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1254	900	ug/Kg	28	12/19/01	TG	SW846 8082
PCB-1260	1,300	ug/Kg	28	12/19/01	TG	SW846 8082
Decachlorobiphenyl (%SR)	88	ug/Kg	0.00	12/19/01	TG	SW846 8082
% Solids	92.4	%		12/19/01	RT	SM2540 B Mod

Lab ID No: AC87797
Client Id: PCB-3

Collection Date: 12/12/01
Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analysis	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			12/19/01	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>PAHs by GC/MS</i>						
Naphthalene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Phenanthrene	310	ug/Kg	179	12/27/01	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Fluoranthene	1,400	ug/Kg	179	12/27/01	MSL	SW846 8270C
Pyrene	2,300	ug/Kg	179	12/27/01	MSL	SW846 8270C
Benzo (a) anthracene	1,100	ug/Kg	179	12/27/01	MSL	SW846 8270C
Chrysene	1,100	ug/Kg	179	12/27/01	MSL	SW846 8270C
Benzo (b) fluoranthene	1,600	ug/Kg	179	12/27/01	MSL	SW846 8270C
Benzo (k) fluoranthene	970	ug/Kg	179	12/27/01	MSL	SW846 8270C
Benzo (a) pyrene	1,500	ug/Kg	179	12/27/01	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	1,100	ug/Kg	179	12/27/01	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	179	12/27/01	MSL	SW846 8270C
Benzo (g,h,i) perylene	1,300	ug/Kg	179	12/27/01	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	42	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Terphenyl-d14 (%SR)	70	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Semivolatile Organic Compounds						
<i>Organochlorine Pesticides by GC</i>						
Aldrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	200	12/19/01	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A

Lab ID No: AC87797

Collection Date: 12/12/01

Client Id: PCB-3

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Organochlorine Pesticides by GC						
Methoxychlor	Below det lim	ug/Kg	80	12/19/01	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	400	12/19/01	TG	SW846 8081A
Decachlorobiphenyl (%SR)	105	ug/Kg	0.	12/19/01	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
Decachlorobiphenyl (%SR)	105	ug/Kg	0.00	12/19/01	TG	SW846 8082
% Solids	89.1	%		12/19/01	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analys	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			12/19/01	RT	SW846 3550B
Semivolatile Organic Compounds						
PAHs by GC/MS						
Naphthalene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
2-Methylnaphthalene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
1-Methylnaphthalene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Acenaphthylene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Acenaphthene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Fluorene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Phenanthrene	940	ug/Kg	186	12/27/01	MSL	SW846 8270C
Anthracene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Fluoranthene	1,900	ug/Kg	186	12/27/01	MSL	SW846 8270C
Pyrene	2,400	ug/Kg	186	12/27/01	MSL	SW846 8270C
Benzo (a) anthracene	1,300	ug/Kg	186	12/27/01	MSL	SW846 8270C
Chrysene	1,200	ug/Kg	186	12/27/01	MSL	SW846 8270C
Benzo (b) fluoranthene	1,700	ug/Kg	186	12/27/01	MSL	SW846 8270C
Benzo (k) fluoranthene	1,100	ug/Kg	186	12/27/01	MSL	SW846 8270C
Benzo (a) pyrene	1,600	ug/Kg	186	12/27/01	MSL	SW846 8270C
Indeno (1,2,3-cd) pyrene	1,100	ug/Kg	186	12/27/01	MSL	SW846 8270C
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	186	12/27/01	MSL	SW846 8270C
Benzo (g,h,i) perylene	1,300	ug/Kg	186	12/27/01	MSL	SW846 8270C
2-Fluorobiphenyl (%SR)	76	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Terphenyl-d14 (%SR)	64	ug/Kg	0.000	12/27/01	MSL	SW846 8270C
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	200	12/19/01	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A

Lab ID No: AC87798

Client Id: PCB-4

Collection Date: 12/12/01

Matrix: Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
<i>Organochlorine Pesticides by GC</i>						
Methoxychlor	Below det lim	ug/Kg	80	12/19/01	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	40	12/19/01	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	400	12/19/01	TG	SW846 8081A
Decachlorobiphenyl (%SR)	102	ug/Kg	0.	12/19/01	TG	SW846 8081A
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1254	22,300	ug/Kg	250	12/19/01	TG	SW846 8082
PCB-1260	11,600	ug/Kg	250	12/19/01	TG	SW846 8082
Decachlorobiphenyl (%SR)	102	ug/Kg	0.00	12/19/01	TG	SW846 8082
% Solids	82.7	%		12/19/01	RT	SM2540 B Mod

Parameter Results Units PQL Start Date Analyst Method

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Aqueous Preservative	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH<2 <input type="checkbox"/> pH>2 <input type="checkbox"/> pH adjusted to ≤2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 3.5°C

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:	
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking	
Sample Preservative	Aqueous	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH≤2 <input type="checkbox"/> pH>2 Comment:
	Soil or Sediment	<input type="checkbox"/> N/A <input type="checkbox"/> Samples NOT received in Methanol or air-tight container
		<input checked="" type="checkbox"/> Samples received in Methanol covering soil <input type="checkbox"/> not covering soil
		<input type="checkbox"/> Sample received in air-tight container:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 3.5°C	

Were all QA/QC procedures followed as required by the VPH method? Yes ☒ No ☐

Were any significant modifications made to the VPH method, as specified in Section 11.3? No * see below

Were all QA/QC procedures followed as required by the EPH method? Yes ☒ No ☐

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes ** see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes ☒ No ☐

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method.

** Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Reviewed by:

Validated by:

Quality Service/Quality Assurance Depts.

President/Laboratory Director

12/31/01



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report Supplement

References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



SPECTRUM ANALYTICAL, INC.

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HAMBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 2

Report To: CDW Consultants, Inc111 Speen St.Frammingham, MA 01901Project Mgr.: Kathleen CampbellInvoice To: Sameper K. Campbell3539P.O. No.: 33391=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=~~4°C~~ 10=DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
87785	B-3/S-1	12/10	10:05	G	SO79		2	1	1	
87786	B-5/S-2	12/10	11:00				2	1	1	
87787	B-8/S-2	12/10	1:25				2	1	1	
87788	B-10/S-1	12/10	1:55				2	1	1	
87789	B-19/S-1	12/11	10:05				2	1	1	
87790	B-21/S-1	12/11	11:05				2	1	1	
87791	B-26/S-2	12/11	2:15				2	1	1	
87792	CDW-3/S-2	12/12	11:00				2	1	1	
87793	DUP	12/11	10:05				2	1	1	
87794	Blank	12/10	8:00				1			

☐ Fax results when available to ()☒ E-mail results when available to bmiller@cdwconsultants.comCondition upon Receipt: ☐ Iced ☐ Ambient ☒ 3-5°C

Ref

Special Handling:

☒ Standard TAT - 7 to 10 business days☐ Rush TAT - Date Needed: 12/19/01

All TATs subject to laboratory approval.

Min. 24-hour notification needed for rushes.

All samples are disposed of after 60 days unless otherwise instructed.

Project No.: 900Site Name: Former Sax PropertyLocation: Dorchester State: MASampler(s): Brian Miller

Containers:

Analyses:

Notes:

Containers:	Analyses:	Notes:
# of VOA Vials	EPH w/PAHS	
# of Amber Glass	VRH w/8260	
# of Clear Glass		
# of Plastic		

Relinquished by:

Received by:

Date:

Time:

12/13/01 14:3012/13/01 16:57



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Report To: CDW Consultants, Inc.

Invoice To: Same

Project No.: 900

Site Name: Former Sax Property

Location: Dorchester State: MA

Project Mgr.: _____ P.O. No.: _____ RQN: 3039

Sampler(s): Brina Miller

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9= 4°C 10= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:
187795	PCB-1	12/12	
187796	PCB-2		
187797	PCB-3		
187798	PCB-4		
AC			
AC			
AC			
AC			
AC			
AC			

Matrix Type

Preservative

Containers:

Analyses:

Notes:

PCBs by Pesticides
PAHs by EPA

Relinquished by:

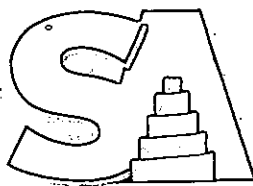
Received by:

Date: Time:

☐ Fax results when available to ()

☒ E-mail results when available to brina.miller@redwateranalysis.com

Condition upon Receipt: ☐ Iced ☐ Ambient ☒ 35°C



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

CDW Consultants, Inc.
111 Speen Street - Suite 119
Framingham, MA 01701

Attn: Kathleen Campbell

Client Project Number: 900

Monday, January 07, 2002

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report



Location: MDC-Sax - Dorchester, MA

Laboratory ID

AC90194

Client Sample ID

CDW-1

Analyses Requested

Separatory Funnel Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury
Total Cyanide

AC90195

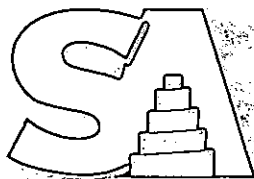
CDW-2

Separatory Funnel Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury
Total Cyanide

AC90196

CDW-3

VOC Matrix Spike Recovery
Duplicate VOC Matrix Spike Rec
Separatory Funnel Extraction
EPH Aliphatics/Aromatics



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: MDC-Sax - Dorchester, MA

Laboratory ID

Client Sample ID

Analyses Requested

AC90196

CDW-3

EPH Target PAH Analytes
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury
Total Cyanide

AC90197

CDW-4

Separatory Funnel Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury
Total Cyanide

AC90198

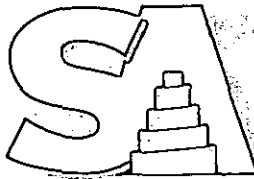
Dup

Separatory Funnel Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury
Total Cyanide

AC90199

Blank

VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
VOC Matrix Spike Recovery



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900

Location: MDC-Sax - Dorchester, MA

Laboratory ID

AC90199

Client Sample ID

Blank

Analyses Requested

Duplicate VOC Matrix Spike Rec

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by

Hanibal C. Tayeh, Ph.D.

President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: MDC-Sax - Dorchester, MA

Client: CDW

Lab ID No: AC90194

Client Id: CDW-1

Client Project No: 900

Submittal Date: 12/27/01

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	1.7	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analysis	Method
VOCs by GC/MS						
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	97	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Lab ID No: AC90194

Client Id: CDW-1

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
p-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	78	ug/L	0.	1/2/02	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	92	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			1/2/02	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.83	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		1/4/02	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	83	ug/L	0.	1/4/02	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	73	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	53	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	58	ug/L	0.	1/4/02	MB	MA EPH 98-1

Lab ID No: AC90194

Client Id: CDW-1

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
Target Analyte Dilution Factor	1	ug/L	0	1/4/02	MB	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			1/4/02	EP	
Soluble Mercury Digestion	Completed			1/4/02	LK	EPA 245.1
Metals Analysis						
Soluble PPI3 Metals						
Soluble Antimony	0.0147	mg/L	0.006	1/4/02	KSR	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	1/4/02	KSR	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	1/4/02	KSR	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	1/4/02	KSR	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Copper	0.0064	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Lead	0.0676	mg/L	0.00375	1/4/02	KSR	EPA 200.7
Soluble Nickel	0.0336	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	1/4/02	KSR	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Zinc	0.992	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	1/7/02	EP	EPA 245.1
General Chemistry						
Total Cyanide	Below det lim	mg/L	0.01	1/3/02	YV	SM 4500-CN-E

Lab ID No: AC90195

Client Id: CDW-2

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Diethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Lab ID No: AC90195
Client Id: CDW-2

Collection Date: 12/26/01
Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	107	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	106	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Lab ID No: AC90195

Client Id: CDW-2

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	92	ug/L	0.	1/2/02	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	107	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12
EPH Preparation						
Separatory Funnel Extraction	Completed			1/2/02	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.55	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		1/4/02	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	78	ug/L	0.	1/4/02	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	76	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	77	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	79	ug/L	0.	1/4/02	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	1/4/02	MB	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			1/4/02	EP	
Soluble Mercury Digestion	Completed			1/4/02	LK	EPA 245.1

Lab ID No: AC90195

Client Id: CDW-2

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Analysis						
<i>Soluble PP13 Metals</i>						
Soluble Antimony	Below det lim	mg/L	0.006	1/4/02	KSR	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	1/4/02	KSR	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	1/4/02	KSR	EPA 200.7
Soluble Cadmium	0.0038	mg/L	0.00125	1/4/02	KSR	EPA 200.7
Soluble Chromium	0.0032	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Copper	0.0455	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Lead	0.0176	mg/L	0.00375	1/4/02	KSR	EPA 200.7
Soluble Nickel	0.0114	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	1/4/02	KSR	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Zinc	0.142	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	1/7/02	EP	EPA 245.1
General Chemistry						
Total Cyanide	Below det lim	mg/L	0.01	1/3/02	YV	SM 4500-CN-E

Lab ID No: AC90196

Collection Date: 12/26/01

Client Id: CDW-3

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	90	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	97	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	95	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Lab ID No: AC90196

Client Id: CDW-3

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	nc	ug/L	0.	1/2/02	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	90	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			1/2/02	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.76	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	0.21	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	0.26	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		1/4/02	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Phenanthrene	9.6	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluoranthene	11	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Pyrene	12	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (b) fluoranthene	7.5	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) pyrene	7.2	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	58	ug/L	0.	1/4/02	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	66	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	80	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	76	ug/L	0.	1/4/02	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	1/4/02	MB	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			1/4/02	EP	
Soluble Mercury Digestion	Completed			1/4/02	LK	EPA 245.1

Lab ID No: AC90196

Client Id: CDW-3

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	1/4/02	KSR	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	1/4/02	KSR	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	1/4/02	KSR	EPA 200.7
Soluble Cadmium	0.0048	mg/L	0.00125	1/4/02	KSR	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Copper	0.0297	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Lead	Below det lim	mg/L	0.00375	1/4/02	KSR	EPA 200.7
Soluble Nickel	0.0609	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	1/4/02	KSR	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Zinc	1.79	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	1/7/02	EP	EPA 245.1
General Chemistry						
Total Cyanide	0.01	mg/L	0.01	1/3/02	YV	SM 4500-CN-E

Lab ID No: AC90197

Collection Date: 12/26/01

Client Id: CDW-4

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	95	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	98	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Lab ID No: AC90197

Collection Date: 12/26/01

Client Id: CDW-4

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Target Analytes						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	82	ug/L	0.	1/2/02	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	95	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			1/2/02	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.79	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		1/4/02	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	64	ug/L	0.	1/4/02	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	53	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	64	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	60	ug/L	0.	1/4/02	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	1/4/02	MB	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			1/4/02	EP	
Soluble Mercury Digestion	Completed			1/4/02	LK	EPA 245.1

Lab ID No: AC90197

Client Id: CDW-4

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Analysis						
<i>Soluble PP13 Metals</i>						
Soluble Antimony	Below det lim	mg/L	0.006	1/4/02	KSR	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	1/4/02	KSR	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	1/4/02	KSR	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	1/4/02	KSR	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Copper	0.0339	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Lead	0.0093	mg/L	0.00375	1/4/02	KSR	EPA 200.7
Soluble Nickel	0.0116	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	1/4/02	KSR	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Zinc	0.387	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	1/7/02	EP	EPA 245.1
General Chemistry						
Total Cyanide	Below det lim	mg/L	0.01	1/3/02	YV	SM 4500-CN-E

Lab ID No: AC90198

Client Id: Dup

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	95	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	98	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Lab ID No: AC90198

Client Id: Dup

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Target Analytes						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	nc	ug/L	0.	1/2/02	TR	MA VPH 97-12
1-Bromofluorobenzene (%SR) GCMS	95	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			1/3/02	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.72	mg/L	0.2	1/4/02	MB	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	0.22	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Unadjusted C11-C22 Aromatics	0.25	mg/L	0.2	1/4/02	MB	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		1/4/02	MB	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Phenanthrene	8.0	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Fluoranthene	7.5	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Pyrene	8.6	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (b) fluoranthene	6.1	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	1/4/02	MB	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	80	ug/L	0.	1/4/02	MB	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	57	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	74	ug/L	0.	1/4/02	MB	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	71	ug/L	0.	1/4/02	MB	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	1/4/02	MB	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			1/4/02	EP	
Soluble Mercury Digestion	Completed			1/4/02	LK	EPA 245.1

Lab ID No: AC90198

Client Id: Dup

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	1/4/02	KSR	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	1/4/02	KSR	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	1/4/02	KSR	EPA 200.7
Soluble Cadmium	0.0053	mg/L	0.00125	1/4/02	KSR	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Copper	0.0284	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Lead	Below det lim	mg/L	0.00375	1/4/02	KSR	EPA 200.7
Soluble Nickel	0.0664	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	1/4/02	KSR	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	1/4/02	KSR	EPA 200.7
Soluble Zinc	1.95	mg/L	0.0025	1/4/02	KSR	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	1/7/02	EP	EPA 245.1
General Chemistry						
Total Cyanide	Below det lim	mg/L	0.01	1/3/02	YV	SM 4500-CN-E

Lab ID No: AC90199

Client Id: Blank

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	1/2/02	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	1/2/02	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1-Chlorotoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	1/2/02	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	1/2/02	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	1/2/02	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	96	ug/L		1/2/02	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	99	ug/L		1/2/02	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	98	ug/L		1/2/02	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	1/2/02	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	1/2/02	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	1/2/02	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	1/2/02	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	1/2/02	TR	MA VPH 97-12

Lab ID No: AC90199

Client Id: Blank

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	1/2/02	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	77	ug/L	0.	1/2/02	TR	MA VPH 97-12
1-Bromofluorobenzene (%SR) GCMS	96	ug/L	0.	1/2/02	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	1/2/02	TR	MA VPH 97-12

Lab ID No: AC90199

Client Id: Blank

Collection Date: 12/26/01

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analysis	Method
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The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Aqueous Preservative	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH $>$ 2 <input type="checkbox"/> pH adjusted to \leq 2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 8°C

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrix	<input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Sample Preservative	Aqueous <input type="checkbox"/> N/A <input checked="" type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH $>$ 2 Comment:
	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Samples NOT received in Methanol or air-tight container
	<input type="checkbox"/> Samples received in Methanol covering soil <input type="checkbox"/> not covering soil
	<input type="checkbox"/> Sample received in air-tight container:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 8°C

Were all QA/QC procedures followed as required by the VPH method? Yes ☒ No ☐

Were any significant modifications made to the VPH method, as specified in Section 11.3? No * see below

Were all QA/QC procedures followed as required by the EPH method? Yes ☐ No ☒

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes ** see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes ☒ No ☐

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method.

** Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Reviewed by:

Validated by:

Quality Service/Quality Assurance Depts.

President/Laboratory Director

1/7/02



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Laboratory Report Supplement

References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
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EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
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EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



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CHAIN OF CUSTODY RECORD

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
☒ Rush TAT - Date Needed: 12/28/01
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
All samples are disposed of after 60 days unless otherwise instructed.

Report To: CPW Consultants, Inc.
111 Specia St.
Framingham, MA
Project Mgr.: Kathleen Campbell
Invoice To: Same
Site Name: MDC-SOX
Location: Dorchester
State: MA
P.O. No.: 3529
RQN: 3529
Project No.: 900
Sampler(s): Brian Miller

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=4°C 10=10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	Containers:				Analyses:	Notes:
							# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		
A8094	CDW-1	12/26/01		↓	GW	25% 20%	2	1	2	2	X Total Cyanide	
A8095	CDW-2			↓	↓	↓	2	1	2	2	X Dissolved PM13	Please Filter +
A8096	CDW-3			↓	↓	↓	2	1	2	2	X VPH w/ 8260	Preserve Metals
A8097	CDW-4			↓	↓	↓	2	1	2	2	X EPA w/ 1045	
A8098	DUP			↓	↓	↓	2	1	2	2	X	
A8099	Blank			↓	↓	↓	1				X	
AC												
AC												
AC												
AC												

Relinquished by: Brian Miller Date: 12/27/01 Time: 1040
Brian Miller Date: 12/27/01 Time: 1445
Fax results when available to ()
E-mail results when available to brian.miller@colwellconsultants.com
Condition upon Receipt: ☐ Iced ☐ Ambient ☒ REF



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Massachusetts Certification # M-MA138

Rhode Island # 98-Maine # MA138

Florida # E87600 / 87562

New Hampshire # 2538

Connecticut # PH-0777

New York # 11393

CDW Consultants, Inc.

111 Speen Street - Suite 119

Framingham, MA 01701

Attn: Kathleen Campbell

Client Project Number: 900

Friday, January 11, 2002

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report



Location: Fmr Sax Property - MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AC91215	Debris-1	Asbestos Determination Metals Digestion Total Lead Polychlorinated Biphenyls by GC Ultrasonic Extraction
AC91216	Debris-2	Asbestos Determination Metals Digestion Total Lead Polychlorinated Biphenyls by GC Ultrasonic Extraction
AC91217	Debris-3	Asbestos Determination Metals Digestion Total Lead Polychlorinated Biphenyls by GC Ultrasonic Extraction
AC91218	Debris-4	Asbestos Determination Metals Digestion Total Lead Polychlorinated Biphenyls by GC Ultrasonic Extraction
AC91219	Debris-5	Asbestos Determination Metals Digestion Total Lead Polychlorinated Biphenyls by GC Ultrasonic Extraction



SPECTRUM ANALYTICAL, INC.

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Client Project Number: 900

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by

Hanibal C. Yayeh, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Fmr Sax Property - MA

Client: CDW

Lab ID No: AC91215

Client Id: Debris-1

Client Project No: 900

Submittal Date: 1/7/02

Collection Date: 12/26/01

Matrix: Debris

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			1/9/02	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
CB-1248	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
CB-1254	Below det lim	ug/Kg	250	1/9/02	TG	SW846 8082
PCB-1260	739,700	ug/Kg	250	1/9/02	TG	SW846 8082
Decachlorobiphenyl (%SR)	82	ug/Kg	0.00	1/9/02	TG	SW846 8082
Metals Preparation						
Metals Digestion	Completed			1/9/02	LFR	EPA 200.7
Metals Analysis						
Total Lead	21.6	mg/Kg	1.46	1/10/02	KSC	200.7/6010B
Subcontracted Analyses						
<i>Asbestos Determination</i>						
% Asbestos	Below det lim	%	1	1/10/02	TRC	EPA 600R
Asbestos Type	None	%		1/10/02	TRC	EPA 600R

Lab ID No: AC91216

Client Id: Debris-2

Collection Date: 12/26/01

Matrix: Debris

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			1/9/02	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	230	1/9/02	TG	SW846 8082
Decachlorobiphenyl (%SR)	92	ug/Kg	0.00	1/9/02	TG	SW846 8082
Metals Preparation						
Metals Digestion	Completed			1/9/02	LFR	EPA 200.7
Metals Analysis						
Total Lead	56.9	mg/Kg	1.52	1/10/02	KSC	200.7/6010B
Subcontracted Analyses						
<i>Asbestos Determination</i>						
% Asbestos	Below det lim	%	1	1/10/02	TRC	EPA 600R
Asbestos Type	None	%		1/10/02	TRC	EPA 600R

Lab ID No: AC91217

Collection Date: 12/26/01

Client Id: Debris-3

Matrix: Debris

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			1/9/02	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	36	1/9/02	TG	SW846 8082
PCB-1260	61	ug/Kg	36	1/9/02	TG	SW846 8082
Decachlorobiphenyl (%SR)	95	ug/Kg	0.00	1/9/02	TG	SW846 8082
Metals Preparation						
Metals Digestion	Completed			1/9/02	LFR	EPA 200.7
Metals Analysis						
Total Lead	7.77	mg/Kg	0.015	1/10/02	KSC	200.7/6010B
Subcontracted Analyses						
<i>Asbestos Determination</i>						
% Asbestos	Below det lim	%	1	1/10/02	TRC	EPA 600R
Asbestos Type	None	%		1/10/02	TRC	EPA 600R

Lab ID No: AC91218

Client Id: Debris-4

Collection Date: 12/26/01

Matrix: Debris

Parameter	Results	Units	PQL	Start Date	Analys	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			1/9/02	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	28	1/9/02	TG	SW846 8082
PCB-1260	180	ug/Kg	28	1/9/02	TG	SW846 8082
Decachlorobiphenyl (%SR)	104	ug/Kg	0.00	1/9/02	TG	SW846 8082
Metals Preparation						
Metals Digestion	Completed			1/9/02	LFR	EPA 200.7
Metals Analysis						
Total Lead	7.54	mg/Kg	1.45	1/11/02	KSC	200.7/6010B
Subcontracted Analyses						
<i>Asbestos Determination</i>						
% Asbestos	Below det lim	%	1	1/10/02	TRC	EPA 600R
Asbestos Type	None	%		1/10/02	TRC	EPA 600R

Lab ID No: AC91219

Collection Date: 12/26/01

Client Id: Debris-5

Matrix: Debris

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			1/9/02	RT	SW846 3550B
Semivolatile Organic Compounds						
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	48	1/9/02	TG	SW846 8082
PCB-1260	9,900	ug/Kg	48	1/9/02	TG	SW846 8082
Decachlorobiphenyl (%SR)	96	ug/Kg	0.00	1/9/02	TG	SW846 8082
Metals Preparation						
Metals Digestion	Completed			1/9/02	LFR	EPA 200.7
Metals Analysis						
Total Lead	18.6	mg/Kg	1.38	1/10/02	KSC	200.7/6010B
Subcontracted Analyses						
Asbestos Determination						
% Asbestos	Below det lim	%	1	1/10/02	TRC	EPA 600R
Asbestos Type	None	%		1/10/02	TRC	EPA 600R

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

1/11/02



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Laboratory Report Supplement

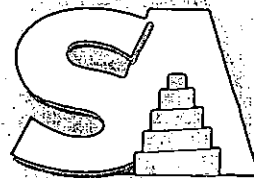
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
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MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons





SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

INVOICE

Date: April 22, 2002

Invoice Number: 22040632

To: CDW Consultants, Inc.
111 Speen Street-Suite 119
Framingham, MA 01701
Attn: Accounts Payable

Purchase Order No.: 900.00

RQN#: 3529

Site Location: MDC Sax Prop.-Dorchester, MA

Lab Sample ID: AD09006 TO AD09103

The following charges are due for the above indicated samples submitted on 4/12/02

ANALYSIS	QUANTITY	UNIT PRICE	TOTAL PRICE
PP13 Metals	6	\$ 90.00	\$ 540.00
PCBs & Pesticides	2	\$ 65.00	\$ 130.00
TOTAL AMOUNT DUE FOR SERVICES:			\$ 670.00

Please remit payment to: Spectrum Analytical, Inc.
11 Almgren Drive
Agawam, MA 01001

Your prompt payment is greatly appreciated. Thank you for your business!

Payment Terms: Net 30 Days

ENVIRONMENTAL ANALYSES

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Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

CDW Consultants, Inc.
111 Speen Street - Suite 119
Framingham, MA 01701

Attn: Kathleen Campbell

Client Project Number: 900.00

Friday, April 19, 2002

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report



Location: MDC Sax Prop. - Dorchester, MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD09006	B-1/S-1	% Solids Metals Digestion Mercury Digestion Total PP13 Metals Total Mercury
AD09007	B-4/S-2	% Solids Metals Digestion Mercury Digestion Total PP13 Metals Total Mercury
AD09008	B-11/S-1	% Solids Metals Digestion Mercury Digestion Total PP13 Metals Total Mercury
AD09009	B-16/S-1	% Solids Metals Digestion Mercury Digestion Total PP13 Metals Total Mercury
AD09010	B-18/S-2	% Solids Metals Digestion Mercury Digestion Total PP13 Metals Total Mercury
AD09011	B-27/S-1	% Solids

ENVIRONMENTAL ANALYSES

Page 1 of 2



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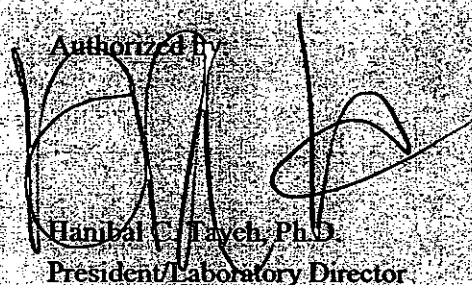
Client Project Number: 900.00

Location: MDC Sax Prop. - Dorchester, MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD09011	B-27/S-1	Metals Digestion Mercury Digestion Total PP13 Metals Total Mercury % Solids Ultrasonic Extraction Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC % Solids Ultrasonic Extraction Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC
AD09012	B-32/S-2	
AD09013	B-33/S-2	

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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Authorized by

Hanibal C. Tatch, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.**Laboratory Report****Location:** MDC Sax Prop. - Dorchester, MA**Client:** CDW**Lab ID No:** AD09006**Client Id:** B-1/S-1**Client Project No:** 900.00**Submittal Date:** 4/12/2002**Collection Date:** 12/10/2001**Matrix:** Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Mercury Digestion	Completed			4/17/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/17/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	78.6	mg/Kg	3.29	4/19/2002	KSR	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.29	4/19/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.548	4/19/2002	KSR	EPA 200.7
Total Cadmium	16.5	mg/Kg	0.548	4/19/2002	KSR	EPA 200.7
Total Chromium	82.9	mg/Kg	1.10	4/19/2002	KSR	EPA 200.7
Total Copper	37,300	mg/Kg	1.10	4/19/2002	KSR	EPA 200.7
Total Lead	21,500	mg/Kg	1.64	4/19/2002	KSR	EPA 200.7
Total Nickel	109	mg/Kg	1.10	4/19/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	48.7	4/19/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.19	4/19/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	7.78	4/19/2002	KSR	EPA 200.7
Total Zinc	39,900	mg/Kg	1.10	4/19/2002	KSR	EPA 200.7
Total Mercury	37.0	mg/Kg	0.208	4/18/2002	EPR	EPA 245.1
% Solids	76.1	%		4/17/2002	LFR	SM2540 B Mod

Lab ID No: AD09007

Client Id: B-4/S-2

Collection Date: 12/10/2001

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Mercury Digestion	Completed			4/17/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/17/2002	LFR	EPA 200.7
Metals Analysis						
Total PPI3 Metals						
Total Antimony	Below det lim	mg/Kg	11.3	4/19/2002	KSR	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	2.95	4/19/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.492	4/19/2002	KSR	EPA 200.7
Total Cadmium	2.35	mg/Kg	0.492	4/19/2002	KSR	EPA 200.7
Total Chromium	16.1	mg/Kg	0.985	4/19/2002	KSR	EPA 200.7
Total Copper	286	mg/Kg	0.985	4/19/2002	KSR	EPA 200.7
Total Lead	469	mg/Kg	1.48	4/19/2002	KSR	EPA 200.7
Total Nickel	22.0	mg/Kg	0.985	4/19/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	18.0	4/19/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.97	4/19/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	7.26	4/19/2002	KSR	EPA 200.7
Total Zinc	84.0	mg/Kg	0.985	4/19/2002	KSR	EPA 200.7
Total Mercury	0.609	mg/Kg	0.190	4/18/2002	EPR	EPA 245.1
% Solids	88.2	%		4/17/2002	LFR	SM2540 B Mod

Lab ID No: AD09008

Client Id: B-11/S-1

Collection Date: 12/10/2001

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Mercury Digestion	Completed			4/17/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/17/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	227	mg/Kg	3.25	4/19/2002	KSR	EPA 200.7
Total Arsenic	6.39	mg/Kg	3.25	4/19/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.542	4/19/2002	KSR	EPA 200.7
Total Cadmium	7.73	mg/Kg	0.542	4/19/2002	KSR	EPA 200.7
Total Chromium	18.3	mg/Kg	1.08	4/19/2002	KSR	EPA 200.7
Total Copper	8,670	mg/Kg	1.08	4/19/2002	KSR	EPA 200.7
Total Lead	33,300	mg/Kg	1.63	4/19/2002	KSR	EPA 200.7
Total Nickel	43.0	mg/Kg	1.08	4/19/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	13.6	4/19/2002	KSR	EPA 200.7
Total Silver	2.57	mg/Kg	2.17	4/19/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	6.37	4/19/2002	KSR	EPA 200.7
Total Zinc	9,630	mg/Kg	1.08	4/19/2002	KSR	EPA 200.7
Total Mercury	13.0	mg/Kg	0.201	4/18/2002	EPR	EPA 245.1
% Solids	81.3	%		4/17/2002	LFR	SM2540 B Mod

Lab ID No: AD09009

Client Id: B-16/S-1

Collection Date: 12/11/2001

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Mercury Digestion	Completed			4/17/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/17/2002	LFR	EPA 200.7
Metals Analysis						
Total PPI3 Metals						
Total Antimony	Below det lim	mg/Kg	16.5	4/19/2002	KSR	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	2.81	4/19/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.469	4/19/2002	KSR	EPA 200.7
Total Cadmium	3.69	mg/Kg	0.469	4/19/2002	KSR	EPA 200.7
Total Chromium	12.2	mg/Kg	0.938	4/19/2002	KSR	EPA 200.7
Total Copper	758	mg/Kg	0.938	4/19/2002	KSR	EPA 200.7
Total Lead	1,780	mg/Kg	1.41	4/19/2002	KSR	EPA 200.7
Total Nickel	15.5	mg/Kg	0.938	4/19/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	10.8	4/19/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.88	4/19/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	5.41	4/19/2002	KSR	EPA 200.7
Total Zinc	1,550	mg/Kg	0.938	4/19/2002	KSR	EPA 200.7
Total Mercury	1.01	mg/Kg	0.181	4/18/2002	EPR	EPA 245.1
% Solids	90.5	%		4/17/2002	LFR	SM2540 B Mod

Lab ID No: AD09010

Client Id: B-18/S-2

Collection Date: 12/11/2001

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Mercury Digestion	Completed			4/17/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/17/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	4.69	4/19/2002	KSR	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	2.73	4/19/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.456	4/19/2002	KSR	EPA 200.7
Total Cadmium	0.920	mg/Kg	0.456	4/19/2002	KSR	EPA 200.7
Total Chromium	10.5	mg/Kg	0.911	4/19/2002	KSR	EPA 200.7
Total Copper	30.0	mg/Kg	0.911	4/19/2002	KSR	EPA 200.7
Total Lead	17.3	mg/Kg	1.37	4/19/2002	KSR	EPA 200.7
Total Nickel	12.7	mg/Kg	0.911	4/19/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.40	4/19/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.82	4/19/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	8.44	4/19/2002	KSR	EPA 200.7
Total Zinc	71.5	mg/Kg	0.911	4/19/2002	KSR	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.181	4/18/2002	EPR	EPA 245.1
% Solids	93.8	%		4/17/2002	LFR	SM2540 B Mod

Lab ID No: AD09011

Collection Date: 12/11/2001

Client Id: B-27/S-1

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Mercury Digestion	Completed			4/17/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/17/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.72	4/19/2002	KSR	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.01	4/19/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.502	4/19/2002	KSR	EPA 200.7
Total Cadmium	1.41	mg/Kg	0.502	4/19/2002	KSR	EPA 200.7
Total Chromium	17.2	mg/Kg	1.00	4/19/2002	KSR	EPA 200.7
Total Copper	281	mg/Kg	1.00	4/19/2002	KSR	EPA 200.7
Total Lead	162	mg/Kg	1.50	4/19/2002	KSR	EPA 200.7
Total Nickel	24.7	mg/Kg	1.00	4/19/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	5.78	4/19/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.01	4/19/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	7.80	4/19/2002	KSR	EPA 200.7
Total Zinc	217	mg/Kg	1.00	4/19/2002	KSR	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.230	4/18/2002	EPR	EPA 245.1
% Solids	86.1	%		4/17/2002	LFR	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			4/18/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Organochlorine Pesticides by GC</i>						
Aldrin	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	30	4/18/2002	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
Methoxychlor	Below det lim	ug/Kg	20	4/18/2002	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	8.1	4/18/2002	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	80	4/18/2002	TG	SW846 8081A
Decachlorobiphenyl (%SR)	110	ug/Kg	0.	4/18/2002	TG	SW846 8081A
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	32	4/18/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	32	4/18/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	32	4/18/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	32	4/18/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	32	4/18/2002	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	32	4/18/2002	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	32	4/18/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	110	ug/Kg	0.00	4/18/2002	TG	SW846 8082
% Solids	80.2	%		4/18/2002	RT	SM2540 B Mod

NOTE: Sample analyzed past the holding time for PCB and Pesticide analysis per client request.

Lab ID No: AD09013

Collection Date: 3/25/2002

Client Id: B-33/S-2

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			4/18/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
<i>Organochlorine Pesticides by GC</i>						
Aldrin	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	200	4/18/2002	TG	SW846 8081A
1,4'-DDD	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
1,4'-DDE	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
1,4'-DDT	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
Methoxychlor	Below det lim	ug/Kg	80	4/18/2002	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	40	4/18/2002	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	400	4/18/2002	TG	SW846 8081A
Decachlorobiphenyl (%SR)	76	ug/Kg	0.	4/18/2002	TG	SW846 8081A
<i>Polychlorinated Biphenyls by GC</i>						
PCB-1016	Below det lim	ug/Kg	250	4/18/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	250	4/18/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	250	4/18/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	250	4/18/2002	TG	SW846 8082
PCB-1248	80,000	ug/Kg	250	4/18/2002	TG	SW846 8082
PCB-1254	Below det lim	ug/Kg	250	4/18/2002	TG	SW846 8082
PCB-1260	Below det lim	ug/Kg	250	4/18/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	76	ug/Kg	0.00	4/18/2002	TG	SW846 8082
% Solids	89.2	%		4/18/2002	RT	SM2540 B Mod

NOTE: Sample analyzed past the holding time for PCB and Pesticide analysis per client request.

Lab ID No: AD09013

Client Id: B-33/S-2


Collection Date: 3/25/2002

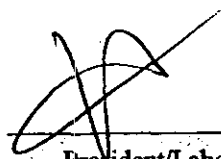
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
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Reviewed by:

Validated by:


Quality Service/Quality Assurance Depts.


President/Laboratory Director

4/19/2002



SPECTRUM ANALYTICAL, INC.

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References

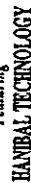
SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

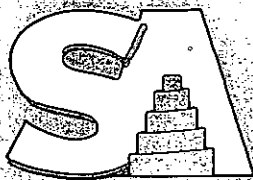
AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons

Definitions

<u>Equipment Blank:</u>	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
<u>Field Duplicate:</u>	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
<u>Laboratory Control Sample (LCS):</u>	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
<u>Matrix Duplicate:</u>	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
<u>Matrix Spike:</u>	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
<u>Matrix Spike Duplicates:</u>	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<u>Method Blank:</u>	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
<u>Method Detection Limit (MDL):</u>	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
<u>Practical Quantitation Limit (PQL):</u>	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
<u>Precision:</u>	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
<u>Surrogate:</u>	An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
<u>Trip Blank:</u>	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.







SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393



CDW Consultants, Inc.
111 Speen Street - Suite 119
Frammingham, MA 01701

Attn: Kathleen Campbell

Client Project Number: 900.00

Tuesday, April 09, 2002

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report

Location: Fmr Sax Property - MA

Laboratory ID

AD05760

Client Sample ID

CDW-5/S-2

Analyses Requested

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AD05761

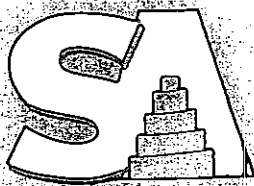
CDW-6/S-1

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AD05762

CDW-7/S-1

Ultrasonic Extraction
EPH Aliphatics/Aromatics



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900.00

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

AD05762

CDW-7/S-1

EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AD05763

CDW-7/S-3

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AD05764

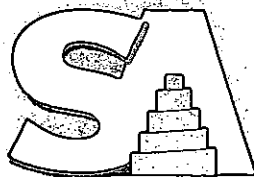
B-41/S-2

Total Lead
Metals Digestion
% Solids

AD05765

B-42/S-3

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Client Project Number: 900.00

Location: Fmr Sax Property - MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD05765	B-42/S-3	Total Mercury % Solids
AD05766	Dup	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes VOC Extraction (solid) VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS Metals Digestion Mercury Digestion Total PP3 Metals Total Mercury % Solids
AD05767	Blank	VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAP including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

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Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Fmr Sax Property - MA

Client: CDW

Lab ID No: AD05760

Client Id: CDW-5/S-2

Client Project No: 900.00

Submittal Date: 3/28/2002

Collection Date: 3/26/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/26/2002		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	2440	4/1/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	244	4/1/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1220	4/1/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	610	4/1/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	244	4/1/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	244	4/1/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	244	4/1/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	244	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B

Lab ID No: AD05760
Client Id: CDW-5/S-2

Collection Date: 3/26/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
OCs by GC/MS						
1,2-Dichloropropane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,2,3,4-Tetrachlorobutadiene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1220	4/1/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Isopropyltoluene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
2-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1220	4/1/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethene (PCE)	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,1,2-Trichloroethene (TCE)	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,1,1-Trichlorofluoromethane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	244	4/1/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	122	4/1/2002	RLJ	SW846 8260B
Bromofluorobenzene (%SR)	105	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	104	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	109	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
MPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.83	4/1/2002	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.610	4/1/2002	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.610	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.83	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.610	4/1/2002	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	4/1/2002	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	240	4/1/2002	RLJ	MA VPH 97-12
o-Xylene	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	111	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	105	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/8/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	200	4/8/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	73	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	73	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1

Lab ID No: AD05760

Client Id: CDW-5/S-2

Collection Date: 3/26/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
2-Bromonaphthalene Fractionation (%SR)	71	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	62	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Metals Preparation						
Mercury Digestion	Completed			4/8/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/8/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	5.07	4/9/2002	KSR	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	2.98	4/9/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.497	4/9/2002	KSR	EPA 200.7
Total Cadmium	1.59	mg/Kg	0.497	4/9/2002	KSR	EPA 200.7
Total Chromium	9.59	mg/Kg	0.994	4/9/2002	KSR	EPA 200.7
Total Copper	379	mg/Kg	0.994	4/9/2002	KSR	EPA 200.7
Total Lead	103	mg/Kg	1.49	4/9/2002	KSR	EPA 200.7
Total Nickel	16.6	mg/Kg	0.994	4/9/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	9.45	4/9/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.99	4/9/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	4.80	4/9/2002	KSR	EPA 200.7
Total Zinc	277	mg/Kg	0.994	4/9/2002	KSR	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.194	4/9/2002	EPS	EPA 245.1
% Solids	87	%		4/2/2002	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/26/2002		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	2300	4/1/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	230	4/1/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1150	4/1/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	575	4/1/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	230	4/1/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	230	4/1/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	230	4/1/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	230	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B

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Collection Date: 3/26/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
OCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1150	4/1/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Isopropyltoluene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1150	4/1/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	230	4/1/2002	RLJ	SW846 8260B
p-Xylene	Below det lim	ug/Kg	115	4/1/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	103	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	104	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	109	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.73	4/1/2002	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.575	4/1/2002	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.575	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.73	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.575	4/1/2002	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	230	4/1/2002	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	120	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	99	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	103	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	220	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	660	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	332	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	336	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/8/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Phenanthrene	510	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Fluoranthene	560	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Pyrene	780	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	330	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Chrysene	490	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	400	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	360	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	180	4/8/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	53	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	57	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	91	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	82	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1

Metals Preparation

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			4/8/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/8/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	86.9	mg/Kg	2.90	4/9/2002	KSR	EPA 200.7
Total Arsenic	20.3	mg/Kg	2.90	4/9/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.484	4/9/2002	KSR	EPA 200.7
Total Cadmium	8.48	mg/Kg	0.484	4/9/2002	KSR	EPA 200.7
Total Chromium	16.5	mg/Kg	0.968	4/9/2002	KSR	EPA 200.7
Total Copper	47,400	mg/Kg	0.968	4/9/2002	KSR	EPA 200.7
Total Lead	19,900	mg/Kg	1.45	4/9/2002	KSR	EPA 200.7
Total Nickel	37.8	mg/Kg	0.968	4/9/2002	KSR	EPA 200.7
Total Selenium	21.7	mg/Kg	2.90	4/9/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.94	4/9/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	2.90	4/9/2002	KSR	EPA 200.7
Total Zinc	23,700	mg/Kg	0.968	4/9/2002	KSR	EPA 200.7
Total Mercury	1.82	mg/Kg	0.183	4/9/2002	EPS	EPA 245.1
% Solids	89.2	%		4/2/2002	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	87	4/1/2002	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	87	4/1/2002	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	87	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	82	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	106	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	3,000	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	6,400	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	2,900	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	2,901	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/8/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Fluoranthene	450	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Pyrene	870	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Chrysene	230	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	57	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	60	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	84	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	65	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1

Metals Preparation

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Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			4/8/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/8/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	14.1	mg/Kg	2.97	4/9/2002	KSR	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	2.97	4/9/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.494	4/9/2002	KSR	EPA 200.7
Total Cadmium	34.9	mg/Kg	0.494	4/9/2002	KSR	EPA 200.7
Total Chromium	47.4	mg/Kg	0.989	4/9/2002	KSR	EPA 200.7
Total Copper	715	mg/Kg	0.989	4/9/2002	KSR	EPA 200.7
Total Lead	701	mg/Kg	1.48	4/9/2002	KSR	EPA 200.7
Total Nickel	77.7	mg/Kg	0.989	4/9/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	13.3	4/9/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.98	4/9/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	8.40	4/9/2002	KSR	EPA 200.7
Total Zinc	868	mg/Kg	0.989	4/9/2002	KSR	EPA 200.7
Total Mercury	0.339	mg/Kg	0.173	4/9/2002	EPS	EPA 245.1
% Solids	89.3	%		4/2/2002	RT	SM2540 B Mod

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Client Id: CDW-7/S-3

Collection Date: 3/26/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/26/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	2000	4/1/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	200	4/1/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1000	4/1/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	500	4/1/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	200	4/1/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	200	4/1/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	200	4/1/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	200	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B

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Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1000	4/1/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1000	4/1/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	200	4/1/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	100	4/1/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	102	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	105	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	109	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
PH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.50	4/1/2002	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	0.78	mg/Kg	0.500	4/1/2002	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.500	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.50	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	0.78	mg/Kg	0.500	4/1/2002	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0	4/1/2002	RLJ	MA VPH 97-12
PH Target Analytes						
Benzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	100	4/1/2002	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	100	4/1/2002	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	200	4/1/2002	RLJ	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	100	4/1/2002	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	100	4/1/2002	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	100	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	120	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	102	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	58	mg/Kg	50	4/8/2002	JD	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	320	mg/Kg	50	4/8/2002	JD	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	61	mg/Kg	50	4/8/2002	JD	MA EPH 98-1
Unadjusted C11-C22 Aromatics	61	mg/Kg	50	4/8/2002	JD	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/8/2002	JD	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	230	4/8/2002	JD	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	86	ug/Kg	0.	4/8/2002	JD	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	82	ug/Kg	0.	4/8/2002	JD	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	79	ug/Kg	0.	4/8/2002	JD	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	68	ug/Kg	0.	4/8/2002	JD	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/8/2002	JD	MA EPH 98-1

Metals Preparation

Lab ID No: AD05763

Collection Date: 3/26/2002

Client Id: CDW-7/S-3

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			4/8/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/8/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	5.96	4/9/2002	KSR	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.32	4/9/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.553	4/9/2002	KSR	EPA 200.7
Total Cadmium	2.16	mg/Kg	0.553	4/9/2002	KSR	EPA 200.7
Total Chromium	17.5	mg/Kg	1.11	4/9/2002	KSR	EPA 200.7
Total Copper	2,040	mg/Kg	1.11	4/9/2002	KSR	EPA 200.7
Total Lead	86.1	mg/Kg	1.66	4/9/2002	KSR	EPA 200.7
Total Nickel	18.6	mg/Kg	1.11	4/9/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	9.46	4/9/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.21	4/9/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	6.38	4/9/2002	KSR	EPA 200.7
Total Zinc	516	mg/Kg	1.11	4/9/2002	KSR	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.212	4/9/2002	EPS	EPA 245.1
% Solids	79.7	%		4/2/2002	RT	SM2540 B Mod

Lab ID No: AD05764

Client Id: B-41/S-2

Collection Date: 3/26/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analysis	Method
Metals Preparation						
Metals Digestion	Completed			4/8/2002	LFR	EPA 200.7
Metals Analysis						
Total Lead	3,670	mg/Kg	1.52	4/9/2002	KSR	200.7/6010B
% Solids	87.1	%		4/8/2002	LFR	SM2540 B Mod

Lab ID No: AD05765

Collection Date: 3/26/2002

Client Id: B-42/S-3

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/26/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1380	4/1/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	138	4/1/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	690	4/1/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	345	4/1/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	138	4/1/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	138	4/1/2002	RLJ	SW846 8260B
o-Chlorotoluene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
p-Chlorotoluene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	138	4/1/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	138	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	690	4/1/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	690	4/1/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	138	4/1/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	69.0	4/1/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	106	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	105	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	111	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.03	4/1/2002	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.345	4/1/2002	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.345	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.03	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.345	4/1/2002	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	69	4/1/2002	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	69	4/1/2002	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	69	4/1/2002	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	140	4/1/2002	RLJ	MA VPH 97-12

Lab ID No: AD05765

Client Id: B-42/S-3

Collection Date: 3/26/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
PH Target Analytes						
Xylene	Below det lim	ug/Kg	69	4/1/2002	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	69	4/1/2002	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	69	4/1/2002	RLJ	MA VPH 97-12
1,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
1,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
1,5-Dibromotoluene (%SR) GCMS	118	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
Bromofluorobenzene (%SR) GCMS	106	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
PH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	4/8/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	4/8/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	4/8/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	4/8/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/8/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	160	4/8/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	50	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	65	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
1-Bromonaphthalene Fractionation (%SR)	79	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	71	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1

Metals Preparation

Lab ID No: AD05765

Client Id: B-42/S-3

Collection Date: 3/26/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			4/8/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/8/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.21	4/9/2002	KSR	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.02	4/9/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.504	4/9/2002	KSR	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.504	4/9/2002	KSR	EPA 200.7
Total Chromium	7.97	mg/Kg	1.01	4/9/2002	KSR	EPA 200.7
Total Copper	72.6	mg/Kg	1.01	4/9/2002	KSR	EPA 200.7
Total Lead	140	mg/Kg	1.51	4/9/2002	KSR	EPA 200.7
Total Nickel	9.96	mg/Kg	1.01	4/9/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.02	4/9/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.02	4/9/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.26	4/9/2002	KSR	EPA 200.7
Total Zinc	106	mg/Kg	1.01	4/9/2002	KSR	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.187	4/9/2002	EPS	EPA 245.1
% Solids	84.1	%		4/2/2002	RT	SM2540 B Mod

Lab ID No: AD05766

Client Id: Dup

Collection Date: 3/26/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/26/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	2560	4/1/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/Kg	256	4/1/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1280	4/1/2002	RLJ	SW846 8260B
n-Butylbenzene	200	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	640	4/1/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/Kg	256	4/1/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/Kg	256	4/1/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	256	4/1/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	256	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1280	4/1/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1280	4/1/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	256	4/1/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/Kg	128	4/1/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	107	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	105	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	112	ug/Kg	0.000	4/1/2002	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.92	4/1/2002	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	0.79	mg/Kg	0.640	4/1/2002	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.640	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.92	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	1.1	mg/Kg	0.640	4/1/2002	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	130	4/1/2002	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/Kg	130	4/1/2002	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	130	4/1/2002	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	260	4/1/2002	RLJ	MA VPH 97-12

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Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	130	4/1/2002	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	130	4/1/2002	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	130	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	97	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	107	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	4/1/2002	RLJ	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	140	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	650	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	377	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	379	mg/Kg	40	4/8/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/8/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Phenanthrene	300	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Fluoranthene	510	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Pyrene	560	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	300	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Chrysene	420	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	190	4/8/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	70	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	45	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	74	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	66	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/8/2002	MSL	MA EPH 98-1

Metals Preparation

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Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			4/8/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/8/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	46.3	mg/Kg	3.07	4/9/2002	KSR	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.07	4/9/2002	KSR	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.511	4/9/2002	KSR	EPA 200.7
Total Cadmium	3.16	mg/Kg	0.511	4/9/2002	KSR	EPA 200.7
Total Chromium	14.4	mg/Kg	1.02	4/9/2002	KSR	EPA 200.7
Total Copper	6,880	mg/Kg	1.02	4/9/2002	KSR	EPA 200.7
Total Lead	5,570	mg/Kg	1.53	4/9/2002	KSR	EPA 200.7
Total Nickel	20.8	mg/Kg	1.02	4/9/2002	KSR	EPA 200.7
Total Selenium	Below det lim	mg/Kg	11.9	4/9/2002	KSR	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.04	4/9/2002	KSR	EPA 200.7
Total Thallium	Below det lim	mg/Kg	6.17	4/9/2002	KSR	EPA 200.7
Total Zinc	4,260	mg/Kg	1.02	4/9/2002	KSR	EPA 200.7
Total Mercury	0.470	mg/Kg	0.189	4/9/2002	EPS	EPA 245.1
% Solids	84.4	%		4/2/2002	RT	SM2540 B Mod

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Matrix Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	1000	4/1/2002	RLJ	SW846 8260B
Acrylonitrile	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Benzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Bromobenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Bromochloromethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Bromoform	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Bromomethane	Below det lim	ug/L	100	4/1/2002	RLJ	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	500	4/1/2002	RLJ	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Carbon disulfide	Below det lim	ug/L	250	4/1/2002	RLJ	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Chlorobenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Chloroethane	Below det lim	ug/L	100	4/1/2002	RLJ	SW846 8260B
Chloroform	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Chloromethane	Below det lim	ug/L	100	4/1/2002	RLJ	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	100	4/1/2002	RLJ	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Dibromomethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	100	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Ethylbenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2-Hexanone (MBK)	Below det lim	ug/L	500	4/1/2002	RLJ	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	500	4/1/2002	RLJ	SW846 8260B
Methylene chloride	Below det lim	ug/L	100	4/1/2002	RLJ	SW846 8260B
Naphthalene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Styrene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Toluene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
Vinyl chloride	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	100	4/1/2002	RLJ	SW846 8260B
o-Xylene	Below det lim	ug/L	50.0	4/1/2002	RLJ	SW846 8260B
4-Bromofluorobenzene (%SR)	106	ug/L	0.000	4/1/2002	RLJ	SW846 8260B
1,4-Difluorobenzene (%SR)	104	ug/L	0.000	4/1/2002	RLJ	SW846 8260B
Chlorobenzene-d5 (%SR)	111	ug/L	0.000	4/1/2002	RLJ	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.750	4/1/2002	RLJ	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.250	4/1/2002	RLJ	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.250	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.750	4/1/2002	RLJ	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.250	4/1/2002	RLJ	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/L	0.	4/1/2002	RLJ	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	50	4/1/2002	RLJ	MA VPH 97-12
Toluene	Below det lim	ug/L	50	4/1/2002	RLJ	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	50	4/1/2002	RLJ	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	100	4/1/2002	RLJ	MA VPH 97-12
o-Xylene	Below det lim	ug/L	50	4/1/2002	RLJ	MA VPH 97-12
Naphthalene	Below det lim	ug/L	50	4/1/2002	RLJ	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	50	4/1/2002	RLJ	MA VPH 97-12

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Matrix Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
<i>VPH Target Analytes</i>						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	4/1/2002	RLJ	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	108	ug/L	0.	4/1/2002	RLJ	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	106	ug/L	0.	4/1/2002	RLJ	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/L	0.	4/1/2002	RLJ	MA VPH 97-12

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Matrix Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
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The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:					
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking					
Aqueous Preservative	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH $>$ 2 <input type="checkbox"/> pH adjusted to \leq 2 in lab Comment:					
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 7°C					

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:					
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking					
Sample Preservative	Aqueous	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH $>$ 2 Comment:				
	Soil or Sediment	<input type="checkbox"/> N/A <input type="checkbox"/> Samples NOT received in Methanol or air-tight container				ml Methanol/g soil <input type="checkbox"/> 1:1 +/- 25% <input checked="" type="checkbox"/> Other:
		<input checked="" type="checkbox"/> Samples received in Methanol covering soil <input type="checkbox"/> not covering soil				
		<input type="checkbox"/> Sample received in air-tight container:				
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 7°C					

Were all QA/QC procedures followed as required by the VPH method? Yes ☒ No ☐

Were any significant modifications made to the VPH method, as specified in Section 11.3? No * see below

Were all QA/QC procedures followed as required by the EPH method? Yes ☒ No ☐

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes ** see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes ☒ No ☐

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method.

** Sample(s) was run via GCMS using all QC criteria specified in the method.

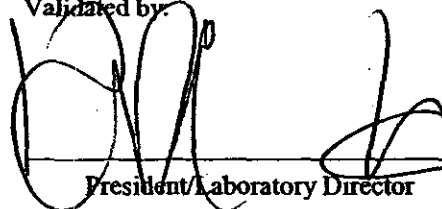
I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Reviewed by:



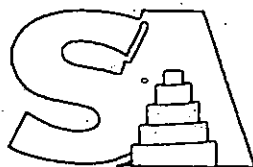
Quality Service/Quality Assurance Depts.

Validated by:



President/Laboratory Director

4/9/2002



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement

References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons

Definitions

<u>Equipment Blank:</u>	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
<u>Field Duplicate:</u>	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
<u>Laboratory Control Sample (LCS):</u>	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
<u>Matrix Duplicate:</u>	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
<u>Matrix Spike:</u>	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
<u>Matrix Spike Duplicates:</u>	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<u>Method Blank:</u>	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
<u>Method Detection Limit (MDL):</u>	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
<u>Practical Quantitation Limit (PQL):</u>	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
<u>Precision:</u>	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
<u>Surrogate:</u>	An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
<u>Trip Blank:</u>	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.



SPECTRUM ANALYTICAL, INC.

Featuring

HARBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling:

☒ Standard TAT - 7 to 10 business days☐ Rush TAT - Date Needed:

- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: CDW Consultants Inc.

Invoice To: Same

Project No.: 900.00

11 Speen St.

Site Name: Farmer Sax Property

Framingham, MA

Location: Dorchester

State: MA

Project Mgr.: Kathleen Campbell

P.O. No.: RQN: 3529

Sampler(s): Brian Miller

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=4°C 10=

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix
0570	CDW-5/5-2	3/26/02	7:40	G	SO
0570	CDW-6/5-1		8:55		
0570	CDW-7/5-1		10:10		
0570	CDW-7/5-3		10:30		
0570	B-41/5-2		11:25		
0570	B-42/5-3		1:05		
0570	DUP		8:55		
0570	Blank		7:30		

Containers:

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

Analyses:

Notes:

EPH w/PAHS
VPH w/8260
XPM13 (Total)
Total Lead

Acquisition by:

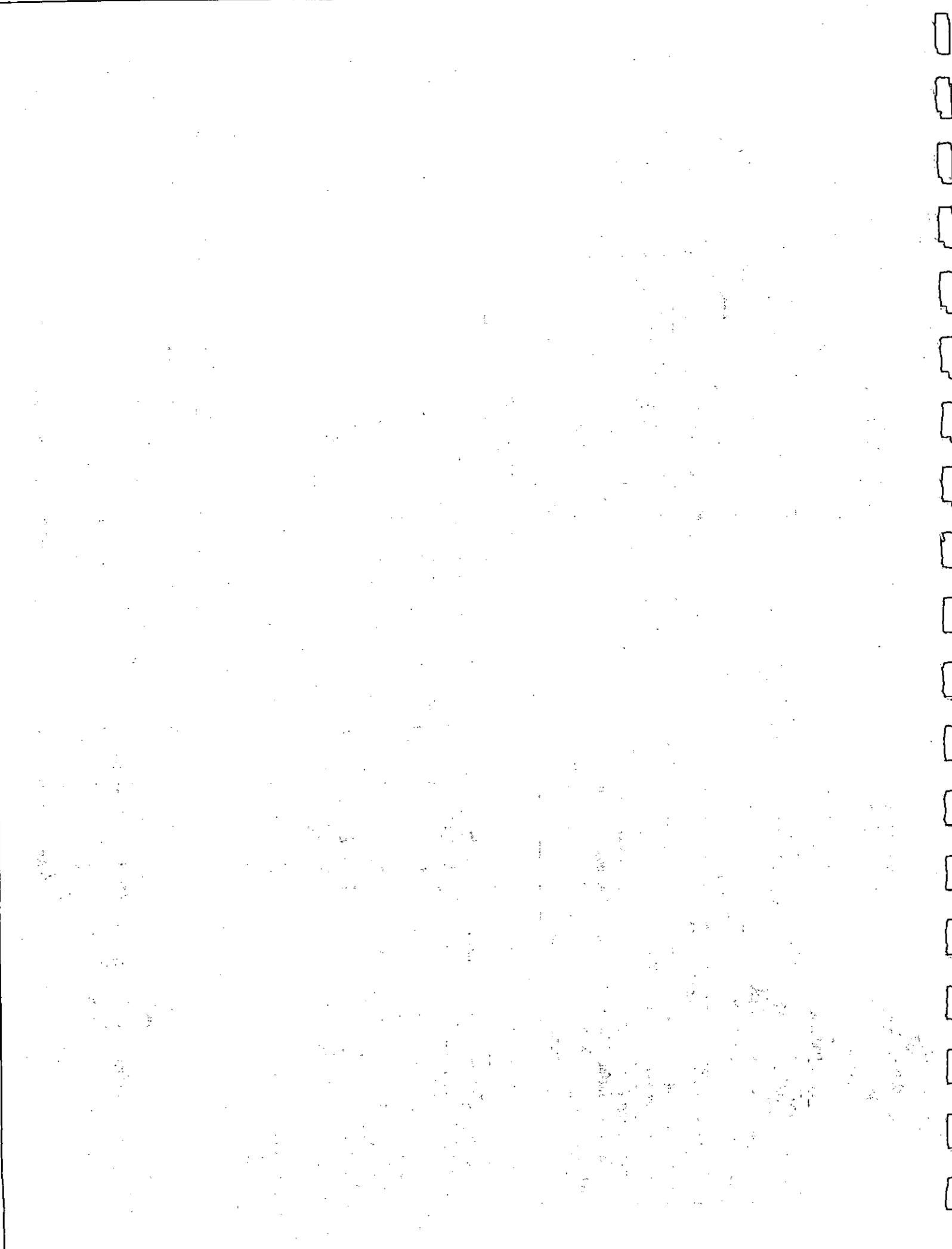
Received by:

Date:

Time:

☐ Fax results when available to ()☒ E-mail results when available to bmc@redwinconsultants.comCondition upon Receipt: ☐ Iced ☐ Ambient ☐ 7°C

FRL9





SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138

Rhode Island # 98 Maine # MA138

Florida # E87600 / 87562

New Hampshire # 2538

Connecticut # PH-0777

New York # 11393

CDW Consultants, Inc.
111 Speen Street - Suite 119
Frammingham, MA 01701

Attn: Kathleen Campbell

Client Project Number: 900.00



Monday, April 08, 2002

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report

Location: Dorchester - MA

Laboratory ID

Client Sample ID

Analyses Requested

AD05230

B-33/S-3

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AD05231

B-33/S-6

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AD05232

B-39/S-4

Ultrasonic Extraction
EPH Aliphatics/Aromatics

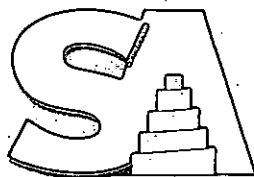


SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: 900.00

Location: Dorchester - MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD05232	B-39/S-4	EPH Target PAH Analytes VOC Extraction (solid) VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS Metals Digestion Mercury Digestion Total PP13 Metals Total Mercury % Solids
AD05233	B-40/S3	Ultrasonic Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes VOC Extraction (solid) VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS Metals Digestion Mercury Digestion Total PP13 Metal Total Mercury % Solids
AD05234	B-32/S-1	Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC Ultrasonic Extraction % Solids
AD05235	B-33/S-1	Organochlorine Pesticides by GC Polychlorinated Biphenyls by GC Ultrasonic Extraction % Solids
AD05236	B-34/S-1	Organochlorine Pesticides by GC Polychlorinated Biphenyls by GC Ultrasonic Extraction % Solids
AD05237	B-35/S-1	Organochlorine Pesticides by GC



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Client Project Number: 900.00

Location: Dorchester - MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD05237	B-35/S-1	Polychlorinated Biphenyls by GC Ultrasonic Extraction % Solids
AD05238	B-36/S-1	Organochlorine Pesticides by GC Polychlorinated Biphenyls by GC Ultrasonic Extraction % Solids
AD05239	B-37/S-1	Organochlorine Pesticides by GC Polychlorinated Biphenyls by GC Ultrasonic Extraction % Solids
AD05240	B-38/S-1	Polychlorinated Biphenyls by GC Organochlorine Pesticides by GC Ultrasonic Extraction % Solids
AD05241	Blank	VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by:


Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Dorchester - MA

Client: CDW

Lab ID No: AD05230

Client Id: B-33/S-3

Client Project No: 900.00

Submittal Date: 3/26/2002

Collection Date: 3/25/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/25/2002		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	3340	3/28/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	334	3/28/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1670	3/28/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	835	3/28/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	334	3/28/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	334	3/28/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	334	3/28/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	334	3/28/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B

Lab ID No: AD05230

Client Id: B-33/S-3

Collection Date: 3/25/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,2-Dichloroethene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1670	3/28/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1-Isopropyltoluene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1670	3/28/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	430	3/28/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	334	3/28/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	167	3/28/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	89	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
4-Difluorobenzene (%SR)	101	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	97	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
MPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	2.51	3/28/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	0.91	mg/Kg	0.835	3/28/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.835	3/28/2002	TR	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Aliphatics/Aromatics						
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	2.51	3/28/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	1.5	mg/Kg	0.835	3/28/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	3/28/2002	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	170	3/28/2002	TR	MA VPH 97-12
Toluene	Below det lim	ug/Kg	170	3/28/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	170	3/28/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	330	3/28/2002	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/Kg	170	3/28/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	170	3/28/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	170	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	83	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	86	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			3/29/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	40	4/4/2002	JD	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	230	mg/Kg	40	4/4/2002	JD	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	57	mg/Kg	40	4/4/2002	JD	MA EPH 98-1
Unadjusted C11-C22 Aromatics	57	mg/Kg	40	4/4/2002	JD	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/4/2002	JD	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1

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Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	58	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	43	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	42	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	66	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Metals Preparation						
Mercury Digestion	Completed			3/29/2002	LFR	EPA 245.1
Metals Digestion	Completed			3/29/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	37.0	4/1/2002	RER	EPA 200.7
Total Arsenic	33.3	mg/Kg	3.67	4/1/2002	RER	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.611	4/1/2002	RER	EPA 200.7
Total Cadmium	13.3	mg/Kg	0.611	4/1/2002	RER	EPA 200.7
Total Chromium	43.7	mg/Kg	1.22	4/1/2002	RER	EPA 200.7
Total Copper	27,300	mg/Kg	1.22	4/1/2002	RER	EPA 200.7
Total Lead	40,300	mg/Kg	1.83	4/1/2002	RER	EPA 200.7
Total Nickel	94.0	mg/Kg	1.22	4/1/2002	RER	EPA 200.7
Total Selenium	Below det lim	mg/Kg	13.3	4/1/2002	RER	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.44	4/1/2002	RER	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.67	4/1/2002	RER	EPA 200.7
Total Zinc	4,740	mg/Kg	1.22	4/1/2002	RER	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.241	4/1/2002	EPR	EPA 245.1
% Solids	72.3	%		3/29/2002	JD	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/25/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1610	3/28/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	161	3/28/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	807	3/28/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	404	3/28/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	161	3/28/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	161	3/28/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	161	3/28/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	161	3/28/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B

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Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
cis-1,3-Dichloropropene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	807	3/28/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	807	3/28/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	210	3/28/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	161	3/28/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	80.7	3/28/2002	TR	SW846 8260B
1-Bromofluorobenzene (%SR)	92	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	95	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.21	3/28/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.403	3/28/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.403	3/28/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.21	3/28/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.403	3/28/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0	3/28/2002	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	81	3/28/2002	TR	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
Toluene	Below det lim	ug/Kg	81	3/28/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	81	3/28/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	160	3/28/2002	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/Kg	81	3/28/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	81	3/28/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	81	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	84	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	90	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			3/29/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	4/4/2002	JD	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	71	mg/Kg	30	4/4/2002	JD	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	4/4/2002	JD	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	4/4/2002	JD	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/4/2002	JD	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	160	4/4/2002	JD	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	43	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	50	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1

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Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
2-Bromonaphthalene Fractionation (%SR)	46	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	76	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Metals Preparation						
Mercury Digestion	Completed			3/29/2002	LFR	EPA 245.1
Metals Digestion	Completed			3/29/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	2.99	4/1/2002	RER	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	2.99	4/1/2002	RER	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.498	4/1/2002	RER	EPA 200.7
Total Cadmium	0.597	mg/Kg	0.498	4/1/2002	RER	EPA 200.7
Total Chromium	49.8	mg/Kg	0.996	4/1/2002	RER	EPA 200.7
Total Copper	416	mg/Kg	0.996	4/1/2002	RER	EPA 200.7
Total Lead	276	mg/Kg	1.49	4/1/2002	RER	EPA 200.7
Total Nickel	37.5	mg/Kg	0.996	4/1/2002	RER	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.05	4/1/2002	RER	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.99	4/1/2002	RER	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.20	4/1/2002	RER	EPA 200.7
Total Zinc	252	mg/Kg	0.996	4/1/2002	RER	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.193	4/1/2002	EPR	EPA 245.1
% Solids	84	%		3/29/2002	JD	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/25/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1630	3/28/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	163	3/28/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	815	3/28/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	408	3/28/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	163	3/28/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	163	3/28/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	163	3/28/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	163	3/28/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B

Lab ID No: AD05232

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Collection Date: 3/25/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
cis-1,3-Dichloropropene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	85	3/28/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	163	3/28/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	81.5	3/28/2002	TR	SW846 8260B
1-Bromofluorobenzene (%SR)	90	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	96	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.22	3/28/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.407	3/28/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.407	3/28/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.22	3/28/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.407	3/28/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	3/28/2002	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	82	3/28/2002	TR	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
Toluene	Below det lim	ug/Kg	82	3/28/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	82	3/28/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	160	3/28/2002	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/Kg	82	3/28/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	82	3/28/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	82	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	75	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	87	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			3/29/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	4/4/2002	JD	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	4/4/2002	JD	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	4/4/2002	JD	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	4/4/2002	JD	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/4/2002	JD	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	150	4/4/2002	JD	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	81	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	51	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
2-Bromonaphthalene Fractionation (%SR)	52	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	76	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Metals Preparation						
Mercury Digestion	Completed			3/29/2002	LFR	EPA 245.1
Metals Digestion	Completed			3/29/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.00	4/1/2002	RER	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.00	4/1/2002	RER	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.499	4/1/2002	RER	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.499	4/1/2002	RER	EPA 200.7
Total Chromium	6.51	mg/Kg	0.999	4/1/2002	RER	EPA 200.7
Total Copper	13.3	mg/Kg	0.999	4/1/2002	RER	EPA 200.7
Total Lead	8.19	mg/Kg	1.50	4/1/2002	RER	EPA 200.7
Total Nickel	4.39	mg/Kg	0.999	4/1/2002	RER	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.00	4/1/2002	RER	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.00	4/1/2002	RER	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.24	4/1/2002	RER	EPA 200.7
Total Zinc	18.9	mg/Kg	0.999	4/1/2002	RER	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.195	4/1/2002	EPR	EPA 245.1
% Solids	86.8	%		3/29/2002	JD	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/25/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1890	3/28/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Benzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/Kg	189	3/28/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	945	3/28/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	472	3/28/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/Kg	189	3/28/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/Kg	180	3/28/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/Kg	189	3/28/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	189	3/28/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	189	3/28/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
cis-1,3-Dichloropropene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	190	3/28/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Styrene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Toluene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	189	3/28/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/Kg	94.5	3/28/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	94	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
4-Difluorobenzene (%SR)	101	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/Kg	0.000	3/28/2002	TR	SW846 8260B
YPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.42	3/28/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.472	3/28/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.472	3/28/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.42	3/28/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.472	3/28/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0	3/28/2002	TR	MA VPH 97-12
YPH Target Analytes						
Benzene	Below det lim	ug/Kg	94	3/28/2002	TR	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
Toluene	Below det lim	ug/Kg	94	3/28/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	94	3/28/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	190	3/28/2002	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/Kg	94	3/28/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	94	3/28/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	94	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	88	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	92	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	3/28/2002	TR	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			3/29/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	40	4/4/2002	JD	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	110	mg/Kg	40	4/4/2002	JD	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	49	mg/Kg	40	4/4/2002	JD	MA EPH 98-1
Unadjusted C11-C22 Aromatics	49	mg/Kg	40	4/4/2002	JD	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/4/2002	JD	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	200	4/4/2002	JD	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	45	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	56	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
2-Bromonaphthalene Fractionation (%SR)	50	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	45	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/4/2002	JD	MA EPH 98-1
Metals Preparation						
Mercury Digestion	Completed			3/29/2002	LFR	EPA 245.1
Metals Digestion	Completed			3/29/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.02	4/1/2002	RER	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.02	4/1/2002	RER	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.503	4/1/2002	RER	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.503	4/1/2002	RER	EPA 200.7
Total Chromium	15.0	mg/Kg	1.01	4/1/2002	RER	EPA 200.7
Total Copper	25.5	mg/Kg	1.01	4/1/2002	RER	EPA 200.7
Total Lead	44.6	mg/Kg	1.51	4/1/2002	RER	EPA 200.7
Total Nickel	8.55	mg/Kg	1.01	4/1/2002	RER	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.54	4/1/2002	RER	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.01	4/1/2002	RER	EPA 200.7
Total Thallium	Below det lim	mg/Kg	5.42	4/1/2002	RER	EPA 200.7
Total Zinc	50.3	mg/Kg	1.01	4/1/2002	RER	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.194	4/1/2002	EPR	EPA 245.1
% Solids	87.7	%		3/29/2002	JD	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			4/1/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	200	4/5/2002	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Methoxychlor	Below det lim	ug/Kg	80	4/5/2002	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	400	4/5/2002	TG	SW846 8081A
Decachlorobiphenyl (%SR)	87	ug/Kg	0.	4/5/2002	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1254	42,000	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1260	12,800	ug/Kg	250	4/5/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	87	ug/Kg	0.00	4/5/2002	TG	SW846 8082
% Solids	82.7	%		4/2/2002	AAS	SM2540 B Mod

Lab ID No: AD05235

Collection Date: 3/25/2002

Client Id: B-33/S-1

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			4/1/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	200	4/5/2002	TG	SW846 8081A
1,4'-DDD	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
1,4'-DDE	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
1,4'-DDT	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Methoxychlor	Below det lim	ug/Kg	80	4/5/2002	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	40	4/5/2002	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	400	4/5/2002	TG	SW846 8081A
Decachlorobiphenyl (%SR)	96	ug/Kg	0.	4/5/2002	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1242	40,100	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1254	21,600	ug/Kg	250	4/5/2002	TG	SW846 8082
PCB-1260	15,800	ug/Kg	250	4/5/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	96	ug/Kg	0.00	4/5/2002	TG	SW846 8082
% Solids	88.5	%		4/2/2002	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			4/1/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
Methoxychlor	Below det lim	ug/Kg	20	4/5/2002	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	7.6	4/5/2002	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	80	4/5/2002	TG	SW846 8081A
Decachlorobiphenyl (%SR)	111	ug/Kg	0.	4/5/2002	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1254	1,200	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1260	850	ug/Kg	30	4/5/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	111	ug/Kg	0.00	4/5/2002	TG	SW846 8082
% Solids	89.5	%		4/2/2002	AAS	SM2540 B Mod

Lab ID No: AD05237

Collection Date: 3/25/2002

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Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			4/1/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
Methoxychlor	Below det lim	ug/Kg	20	4/5/2002	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	7.8	4/5/2002	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	80	4/5/2002	TG	SW846 8081A
Decachlorobiphenyl (%SR)	70	ug/Kg	0.	4/5/2002	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	31	4/5/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	31	4/5/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	31	4/5/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	31	4/5/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	31	4/5/2002	TG	SW846 8082
PCB-1254	1,300	ug/Kg	31	4/5/2002	TG	SW846 8082
PCB-1260	970	ug/Kg	31	4/5/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	70	ug/Kg	0.00	4/5/2002	TG	SW846 8082
% Solids	88.1	%		4/2/2002	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			4/1/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Methoxychlor	Below det lim	ug/Kg	10	4/5/2002	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	70	4/5/2002	TG	SW846 8081A
Decachlorobiphenyl (%SR)	91	ug/Kg	0.	4/5/2002	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1254	2,700	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1260	2,500	ug/Kg	30	4/5/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	91	ug/Kg	0.00	4/5/2002	TG	SW846 8082
% Solids	94.3	%		4/2/2002	AAS	SM2540 B Mod

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Client Id: B-37/S-1

Collection Date: 3/25/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			4/1/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Methoxychlor	Below det lim	ug/Kg	10	4/5/2002	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	7.4	4/5/2002	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	70	4/5/2002	TG	SW846 8081A
Decachlorobiphenyl (%SR)	96	ug/Kg	0.	4/5/2002	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1254	580	ug/Kg	30	4/5/2002	TG	SW846 8082
PCB-1260	280	ug/Kg	30	4/5/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	96	ug/Kg	0.00	4/5/2002	TG	SW846 8082
% Solids	93.9	%		4/2/2002	AAS	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
SVOC Preparation						
Ultrasonic Extraction	Completed			4/1/2002	RT	SW846 3550B
Semivolatile Organic Compounds						
Organochlorine Pesticides by GC						
Aldrin	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
alpha-BHC	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
beta-BHC	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
delta-BHC	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
gamma-BHC (Lindane)	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
Chlordane	Below det lim	ug/Kg	30	4/5/2002	TG	SW846 8081A
4,4'-DDD	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
4,4'-DDE	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
4,4'-DDT	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
Dieldrin	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
Endosulfan I	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
Endosulfan II	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
Endosulfan sulfate	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
Endrin	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
Endrin aldehyde	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
Heptachlor	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
Methoxychlor	Below det lim	ug/Kg	10	4/5/2002	TG	SW846 8081A
Heptachlor epoxide	Below det lim	ug/Kg	6.8	4/5/2002	TG	SW846 8081A
Toxaphene	Below det lim	ug/Kg	70	4/5/2002	TG	SW846 8081A
Decachlorobiphenyl (%SR)	90	ug/Kg	0.	4/5/2002	TG	SW846 8081A
Polychlorinated Biphenyls by GC						
PCB-1016	Below det lim	ug/Kg	27	4/5/2002	TG	SW846 8082
PCB-1221	Below det lim	ug/Kg	27	4/5/2002	TG	SW846 8082
PCB-1232	Below det lim	ug/Kg	27	4/5/2002	TG	SW846 8082
PCB-1242	Below det lim	ug/Kg	27	4/5/2002	TG	SW846 8082
PCB-1248	Below det lim	ug/Kg	27	4/5/2002	TG	SW846 8082
PCB-1254	210	ug/Kg	27	4/5/2002	TG	SW846 8082
PCB-1260	150	ug/Kg	27	4/5/2002	TG	SW846 8082
Decachlorobiphenyl (%SR)	90	ug/Kg	0.00	4/5/2002	TG	SW846 8082
% Solids	95.6	%		4/2/2002	AAS	SM2540 B Mod

Lab ID No: AD05241

Client Id: Blank

Collection Date: 3/25/2002

Matrix Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	1000	3/28/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Benzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	100	3/28/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	500	3/28/2002	TR	SW846 8260B
Butylbenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	250	3/28/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	100	3/28/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	100	3/28/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Chlorotoluene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	100	3/28/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	100	3/28/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Thylbenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
Hexachlorobutadiene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	500	3/28/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	500	3/28/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Styrene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Toluene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	100	3/28/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	50.0	3/28/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	91	ug/L	0.000	3/28/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	103	ug/L	0.000	3/28/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	93	ug/L	0.000	3/28/2002	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.750	3/28/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.250	3/28/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.250	3/28/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.750	3/28/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.250	3/28/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/L	0.	3/28/2002	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	50	3/28/2002	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	50	3/28/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	50	3/28/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	100	3/28/2002	TR	MA VPH 97-12

Lab ID No: AD05241

Client Id: Blank

Collection Date: 3/25/2002

Matrix Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/L	50	3/28/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	50	3/28/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	50	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	3/28/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	84	ug/L	0.	3/28/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	88	ug/L	0.	3/28/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/L	0.	3/28/2002	TR	MA VPH 97-12

Lab ID No: AD05241

Client Id: Blank

Collection Date: 3/25/2002

Matrix Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
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The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Aqueous Preservative	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH $>$ 2 <input type="checkbox"/> pH adjusted to \leq 2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice <input type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 6°C

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:	
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking	
Sample Preservative	Aqueous	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH $>$ 2 Comment:
	Soil or Sediment	<input type="checkbox"/> N/A <input type="checkbox"/> Samples NOT received in Methanol or air-tight container
		<input checked="" type="checkbox"/> Samples received in Methanol covering soil <input type="checkbox"/> not covering soil
		<input type="checkbox"/> Sample received in air-tight container:
Temperature	<input type="checkbox"/> Received on ice <input type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 6°C	

Were all QA/QC procedures followed as required by the VPH method? Yes ☒ No ☐

Were any significant modifications made to the VPH method, as specified in Section 11.3? No * see below

Were all QA/QC procedures followed as required by the EPH method? Yes ☒ No ☐

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes ** see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes ☒ No ☐

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method.

** Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

4/8/2002



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report Supplement

References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons

Definitions

<u>Equipment Blank:</u>	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
<u>Field Duplicate:</u>	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
<u>Laboratory Control Sample (LCS):</u>	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
<u>Matrix Duplicate:</u>	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
<u>Matrix Spike:</u>	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
<u>Matrix Spike Duplicates:</u>	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<u>Method Blank:</u>	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
<u>Method Detection Limit (MDL):</u>	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
<u>Practical Quantitation Limit (PQL):</u>	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
<u>Precision:</u>	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
<u>Surrogate:</u>	An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
<u>Trip Blank:</u>	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.



SPECTRUM ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- ☐ All TATs subject to laboratory approval.
- ☐ Min. 24-hour notification needed for rushes.
- ☐ All samples are disposed of after 60 days unless otherwise instructed.

Report To: CDW Consultants
111 Spear St.
Framingham, MA 01701
Project Mgr.: Kathleen Campbell
Invoice To: Same
P.O. No.: 3529
Project No.: 900.00
Site Name: Farmer Sax Property
Location: Dorchester State: MA
Sampler(s): Brian Miller

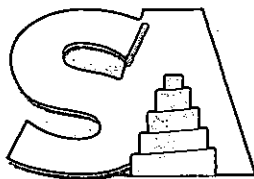
1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=40C 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preserv	# of VC	# of An	# of Cls	# of Pla	EDH	VPH	DPN	PBS
1005230	B-33/S-3	3/25/02	9:10	G	SO	79	2	1	1		X	X	X	
1005231	B-33/S-6	↓	9:25				2	1	1		X	X	X	
1005232	B-33/S-4					2	1	1		X	X	X		
1005233	B-40/S-3					2	1	1		X	X	X		
1005234	B-32/S-1			8:40			0			1				X
1005235	B-33/S-1		8:55			0			1				X	
1005236	B-34/S-1		9:50			0			1				X	
1005237	B-35/S-1	↓	10:20			0			1				X	
1005238	B-36/S-1			11:05			0			1				X
1005239	B-37/S-1			12:00			0			1				X

Relinquished by: Dan B. [Signature] Date: 3/26/02 Time: 1038
Retained by: Brian Miller Date: 3/26/02 Time: 1545
Fax results when available to: ()
E-mail results when available to: bmiller@cdwconsultants.com
Condition upon Receipt: ☐ Iced ☐ Ambient ☒ °C



SPECTRUM ANALYTICAL, INC.

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HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138

Rhode Island # 98 Maine # MA138

Florida # E87600 / 87562

New Hampshire # 2538

Connecticut # PH-0777

New York # 11393

CDW Consultants, Inc.

111 Speen Street - Suite 119

Framingham, MA 01701

Attn: Kathleen Campbell

Client Project Number: 900.00

Friday, April 05, 2002

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report



Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

AD05898

B-43/S-3

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AD05899

B-44/S-3

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AD05900

B-45/S-2

Weak Acid Dissociable Cyanide
Ultrasonic Extraction



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Client Project Number: 900.00

Location: Fmr Sax Property - MA

Laboratory ID

Client Sample ID

Analyses Requested

AD05900

B-45/S-2

EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AD05901

B-46/S-2

Weak Acid Dissociable Cyanide
Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury
% Solids

AD05902

CDW-8/S-2

Ultrasonic Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VOC Extraction (solid)
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Digestion
Mercury Digestion
Total PP13 Metals
Total Mercury



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Client Project Number: 900.00

Location: Fmr Sax Property - MA

Laboratory ID

AD05902

AD05903

Client Sample ID

CDW-8/S-2

Blank

Analyses Requested

% Solids

VPH Aliphatics/Aromatics

VPH Target Analytes

VOCs by GC/MS

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by

Hanibal C. Nayeh, Ph.D.

President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Fmr Sax Property - MA

Client: CDW

Lab ID No: AD05898

Client Id: B-43/S-3

Client Project No: 900.00

Submittal Date: 3/29/2002

Collection Date: 3/27/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/27/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	3020	4/1/2002	AS	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Benzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Bromoform	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Bromomethane	Below det lim	ug/Kg	302	4/1/2002	AS	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1510	4/1/2002	AS	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	755	4/1/2002	AS	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Chloroethane	Below det lim	ug/Kg	302	4/1/2002	AS	SW846 8260B
Chloroform	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Chloromethane	Below det lim	ug/Kg	302	4/1/2002	AS	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	302	4/1/2002	AS	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	302	4/1/2002	AS	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B

Lab ID No: AD05898

Collection Date: 3/27/2002

Client Id: B-43/S-3

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
1,2-Dichloropropane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1510	4/1/2002	AS	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1510	4/1/2002	AS	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	301	4/1/2002	AS	SW846 8260B
Naphthalene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Styrene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Toluene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	302	4/1/2002	AS	SW846 8260B
o-Xylene	Below det lim	ug/Kg	151	4/1/2002	AS	SW846 8260B
4-Bromofluorobenzene (%SR)	89	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
1,4-Difluorobenzene (%SR)	98	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
Chlorobenzene-d5 (%SR)	88	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	2.27	4/1/2002	AS	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.755	4/1/2002	AS	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.755	4/1/2002	AS	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	2.27	4/1/2002	AS	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.755	4/1/2002	AS	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	4/1/2002	AS	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	150	4/1/2002	AS	MA VPH 97-12
Toluene	Below det lim	ug/Kg	150	4/1/2002	AS	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	150	4/1/2002	AS	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	300	4/1/2002	AS	MA VPH 97-12
o-Xylene	Below det lim	ug/Kg	150	4/1/2002	AS	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	150	4/1/2002	AS	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	150	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	77	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	89	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/4/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	260	4/4/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	55	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	49	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
2-Bromonaphthalene Fractionation (%SR)	43	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	45	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
Metals Preparation						
Mercury Digestion	Completed			4/3/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/3/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.77	4/4/2002	KSE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.77	4/4/2002	KSE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.627	4/4/2002	KSE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.627	4/4/2002	KSE	EPA 200.7
Total Chromium	14.2	mg/Kg	1.25	4/4/2002	KSE	EPA 200.7
Total Copper	11.6	mg/Kg	1.25	4/4/2002	KSE	EPA 200.7
Total Lead	8.76	mg/Kg	1.88	4/4/2002	KSE	EPA 200.7
Total Nickel	11.0	mg/Kg	1.25	4/4/2002	KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.77	4/4/2002	KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.51	4/4/2002	KSE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.77	4/4/2002	KSE	EPA 200.7
Total Zinc	29.9	mg/Kg	1.25	4/4/2002	KSE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.233	4/4/2002	EPE	EPA 245.1
% Solids	71	%		4/2/2002	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/27/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	1920	4/1/2002	AS	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Benzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Bromoform	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Bromomethane	Below det lim	ug/Kg	192	4/1/2002	AS	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	960	4/1/2002	AS	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	480	4/1/2002	AS	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Chloroethane	Below det lim	ug/Kg	192	4/1/2002	AS	SW846 8260B
Chloroform	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Chloromethane	Below det lim	ug/Kg	192	4/1/2002	AS	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	192	4/1/2002	AS	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	192	4/1/2002	AS	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
OCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Hexanone (MBK)	Below det lim	ug/Kg	960	4/1/2002	AS	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Isopropyltoluene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	960	4/1/2002	AS	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	192	4/1/2002	AS	SW846 8260B
Naphthalene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Propylbenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Styrene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,1,2-Tetrachloroethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Toluene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	192	4/1/2002	AS	SW846 8260B
o-Xylene	Below det lim	ug/Kg	96.0	4/1/2002	AS	SW846 8260B
4-Bromofluorobenzene (%SR)	91	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
4-Difluorobenzene (%SR)	98	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
Chlorobenzene-d5 (%SR)	90	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
PH Aliphatics/Aromatics						
5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.44	4/1/2002	AS	MA VPH 97-12
9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.480	4/1/2002	AS	MA VPH 97-12
9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.480	4/1/2002	AS	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.44	4/1/2002	AS	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.480	4/1/2002	AS	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	4/1/2002	AS	MA VPH 97-12
PH Target Analytes						
Benzene	Below det lim	ug/Kg	96	4/1/2002	AS	MA VPH 97-12
Toluene	Below det lim	ug/Kg	96	4/1/2002	AS	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	96	4/1/2002	AS	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	190	4/1/2002	AS	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	96	4/1/2002	AS	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	96	4/1/2002	AS	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	96	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	76	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	91	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	4/4/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/Kg	30	4/4/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	30	4/4/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	30	4/4/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/4/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	170	4/4/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	51	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	56	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	40	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	40	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1

Metals Preparation

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			4/3/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/3/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.17	4/4/2002	KSE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.17	4/4/2002	KSE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.528	4/4/2002	KSE	EPA 200.7
Total Cadmium	Below det lim	mg/Kg	0.528	4/4/2002	KSE	EPA 200.7
Total Chromium	10.8	mg/Kg	1.06	4/4/2002	KSE	EPA 200.7
Total Copper	23.8	mg/Kg	1.06	4/4/2002	KSE	EPA 200.7
Total Lead	10.6	mg/Kg	1.58	4/4/2002	KSE	EPA 200.7
Total Nickel	10.9	mg/Kg	1.06	4/4/2002	KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.17	4/4/2002	KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.11	4/4/2002	KSE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.17	4/4/2002	KSE	EPA 200.7
Total Zinc	38.0	mg/Kg	1.06	4/4/2002	KSE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.183	4/4/2002	EPE	EPA 245.1
General Chemistry						
Weak Acid Dissociable Cyanide	Below det lim	mg/Kg	1.2	4/2/2002	YV	SM4500-CN-I
% Solids	84.5	%		4/2/2002	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/27/2002		SW846 5035
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/Kg	2420	4/1/2002	AS	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Benzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Bromoform	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Bromomethane	Below det lim	ug/Kg	242	4/1/2002	AS	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1210	4/1/2002	AS	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	605	4/1/2002	AS	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Chloroethane	Below det lim	ug/Kg	242	4/1/2002	AS	SW846 8260B
Chloroform	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Chloromethane	Below det lim	ug/Kg	242	4/1/2002	AS	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	242	4/1/2002	AS	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	242	4/1/2002	AS	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1210	4/1/2002	AS	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1210	4/1/2002	AS	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	484	4/1/2002	AS	SW846 8260B
Naphthalene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Styrene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Toluene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	242	4/1/2002	AS	SW846 8260B
o-Xylene	Below det lim	ug/Kg	121	4/1/2002	AS	SW846 8260B
4-Bromofluorobenzene (%SR)	94	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
1,4-Difluorobenzene (%SR)	98	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
Chlorobenzene-d5 (%SR)	92	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	1.82	4/1/2002	AS	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.605	4/1/2002	AS	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.605	4/1/2002	AS	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	1.82	4/1/2002	AS	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.605	4/1/2002	AS	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	4/1/2002	AS	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	120	4/1/2002	AS	MA VPH 97-12
Toluene	Below det lim	ug/Kg	120	4/1/2002	AS	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	120	4/1/2002	AS	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	240	4/1/2002	AS	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	120	4/1/2002	AS	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	120	4/1/2002	AS	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	120	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	82	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	94	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	480	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	105	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	108	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/4/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Phenanthrene	370	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Fluoranthene	890	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Pyrene	820	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	400	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Chrysene	640	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	590	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	240	4/4/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	67	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	73	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	48	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	48	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
Metals Preparation						

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			4/3/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/3/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	3.04	4/4/2002	KSE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	3.04	4/4/2002	KSE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.506	4/4/2002	KSE	EPA 200.7
Total Cadmium	25.1	mg/Kg	0.506	4/4/2002	KSE	EPA 200.7
Total Chromium	65.1	mg/Kg	1.01	4/4/2002	KSE	EPA 200.7
Total Copper	3,600	mg/Kg	1.01	4/4/2002	KSE	EPA 200.7
Total Lead	10,400	mg/Kg	1.52	4/4/2002	KSE	EPA 200.7
Total Nickel	158	mg/Kg	1.01	4/4/2002	KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	3.04	4/4/2002	KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.02	4/4/2002	KSE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	3.04	4/4/2002	KSE	EPA 200.7
Total Zinc	7,700	mg/Kg	1.01	4/4/2002	KSE	EPA 200.7
Total Mercury	7.36	mg/Kg	0.199	4/4/2002	EPE	EPA 245.1
General Chemistry						
Weak Acid Dissociable Cyanide	1.2	mg/Kg	1.2	4/2/2002	YV	SM4500-CN-I
% Solids	84.3	%		4/2/2002	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/27/2002		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	4320	4/1/2002	AS	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Benzene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Bromoform	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Bromomethane	Below det lim	ug/Kg	432	4/1/2002	AS	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	2160	4/1/2002	AS	SW846 8260B
n-Butylbenzene	120	ug/Kg	108	4/1/2002	AS	SW846 8260B
sec-Butylbenzene	220	ug/Kg	216	4/1/2002	AS	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	1080	4/1/2002	AS	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Chlorobenzene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Chloroethane	Below det lim	ug/Kg	432	4/1/2002	AS	SW846 8260B
Chloroform	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Chloromethane	Below det lim	ug/Kg	432	4/1/2002	AS	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	432	4/1/2002	AS	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	432	4/1/2002	AS	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
OCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Ethylbenzene	240	ug/Kg	216	4/1/2002	AS	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	2160	4/1/2002	AS	SW846 8260B
Isopropylbenzene	230	ug/Kg	216	4/1/2002	AS	SW846 8260B
Isopropyltoluene	320	ug/Kg	216	4/1/2002	AS	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	2160	4/1/2002	AS	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	432	4/1/2002	AS	SW846 8260B
Naphthalene	32,200	ug/Kg	216	4/1/2002	AS	SW846 8260B
n-Propylbenzene	140	ug/Kg	108	4/1/2002	AS	SW846 8260B
Styrene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Toluene	190	ug/Kg	108	4/1/2002	AS	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,2,4-Trimethylbenzene	840	ug/Kg	216	4/1/2002	AS	SW846 8260B
1,3,5-Trimethylbenzene	420	ug/Kg	216	4/1/2002	AS	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	216	4/1/2002	AS	SW846 8260B
m,p-Xylenes	470	ug/Kg	432	4/1/2002	AS	SW846 8260B
o-Xylene	240	ug/Kg	216	4/1/2002	AS	SW846 8260B
1-Bromofluorobenzene (%SR)	105	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
1,4-Difluorobenzene (%SR)	99	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
PH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	23	mg/Kg	3.24	4/1/2002	AS	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	13	mg/Kg	1.08	4/1/2002	AS	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	5.75	mg/Kg	1.08	4/1/2002	AS	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	24	mg/Kg	3.24	4/1/2002	AS	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	19	mg/Kg	1.08	4/1/2002	AS	MA VPH 97-12
Carbon Chain Dilution Factor	100	mg/Kg	0.	4/1/2002	AS	MA VPH 97-12
PH Target Analytes						
Benzene	Below det lim	ug/Kg	220	4/1/2002	AS	MA VPH 97-12
Toluene	190	ug/Kg	108	4/1/2002	AS	MA VPH 97-12
Ethylbenzene	240	ug/Kg	220	4/1/2002	AS	MA VPH 97-12
m,p-Xylenes	470	ug/Kg	430	4/1/2002	AS	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	240	ug/Kg	220	4/1/2002	AS	MA VPH 97-12
Naphthalene	32,200	ug/Kg	220	4/1/2002	AS	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	220	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	83	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	105	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
Target Analytes Dilution Factor	100	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	53	mg/Kg	40	4/4/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	310	mg/Kg	40	4/4/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	570	mg/Kg	40	4/4/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	880	mg/Kg	40	4/4/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/4/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	4,800	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	3,100	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Acenaphthene	8,900	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Fluorene	10,000	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Phenanthrene	69,000	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Anthracene	27,000	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Fluoranthene	52,000	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Pyrene	46,000	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	22,000	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Chrysene	17,000	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	14,000	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	8,400	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	14,000	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	7,400	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	2,100	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	6,400	ug/Kg	200	4/4/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	72	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	69	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	95	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	73	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0.	4/4/2002	MSL	MA EPH 98-1

Metals Preparation

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Collection Date: 3/27/2002

Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			4/3/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/3/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	2.90	4/4/2002	KSE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	2.90	4/4/2002	KSE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.483	4/4/2002	KSE	EPA 200.7
Total Cadmium	2.07	mg/Kg	0.483	4/4/2002	KSE	EPA 200.7
Total Chromium	12.5	mg/Kg	0.966	4/4/2002	KSE	EPA 200.7
Total Copper	31.4	mg/Kg	0.966	4/4/2002	KSE	EPA 200.7
Total Lead	81.3	mg/Kg	1.45	4/4/2002	KSE	EPA 200.7
Total Nickel	12.7	mg/Kg	0.966	4/4/2002	KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	2.90	4/4/2002	KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	1.93	4/4/2002	KSE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	2.90	4/4/2002	KSE	EPA 200.7
Total Zinc	212	mg/Kg	0.966	4/4/2002	KSE	EPA 200.7
Total Mercury	Below det lim	mg/Kg	0.200	4/4/2002	EPE	EPA 245.1
% Solids	87.3	%		4/2/2002	RT	SM2540 B Mod

Lab ID No: AD05902
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Collection Date: 3/27/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOC Preparation						
VOC Extraction (solid)	Field ext			3/27/2002		SW846 5035
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/Kg	3540	4/1/2002	AS	SW846 8260B
Acrylonitrile	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Benzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Bromobenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Bromochloromethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Bromodichloromethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Bromoform	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Bromomethane	Below det lim	ug/Kg	354	4/1/2002	AS	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/Kg	1770	4/1/2002	AS	SW846 8260B
n-Butylbenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
sec-Butylbenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
tert-Butylbenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Carbon disulfide	Below det lim	ug/Kg	885	4/1/2002	AS	SW846 8260B
Carbon tetrachloride	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Chlorobenzene	250	ug/Kg	177	4/1/2002	AS	SW846 8260B
Chloroethane	Below det lim	ug/Kg	354	4/1/2002	AS	SW846 8260B
Chloroform	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Chloromethane	Below det lim	ug/Kg	354	4/1/2002	AS	SW846 8260B
2-Chlorotoluene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
4-Chlorotoluene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/Kg	354	4/1/2002	AS	SW846 8260B
Dibromochloromethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Dibromomethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/Kg	354	4/1/2002	AS	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B

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Collection Date: 3/27/2002
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
trans-1,3-Dichloropropene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Ethylbenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/Kg	1770	4/1/2002	AS	SW846 8260B
Isopropylbenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/Kg	1770	4/1/2002	AS	SW846 8260B
Methylene chloride	Below det lim	ug/Kg	268	4/1/2002	AS	SW846 8260B
Naphthalene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
n-Propylbenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Styrene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Toluene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
Vinyl chloride	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
m,p-Xylenes	Below det lim	ug/Kg	354	4/1/2002	AS	SW846 8260B
o-Xylene	Below det lim	ug/Kg	177	4/1/2002	AS	SW846 8260B
4-Bromofluorobenzene (%SR)	88	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
1,4-Difluorobenzene (%SR)	98	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
Chlorobenzene-d5 (%SR)	88	ug/Kg	0.000	4/1/2002	AS	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/Kg	2.65	4/1/2002	AS	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/Kg	0.885	4/1/2002	AS	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/Kg	0.885	4/1/2002	AS	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/Kg	2.65	4/1/2002	AS	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/Kg	0.885	4/1/2002	AS	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/Kg	0.	4/1/2002	AS	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/Kg	180	4/1/2002	AS	MA VPH 97-12
Toluene	Below det lim	ug/Kg	180	4/1/2002	AS	MA VPH 97-12
Ethylbenzene	Below det lim	ug/Kg	180	4/1/2002	AS	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/Kg	350	4/1/2002	AS	MA VPH 97-12

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Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/Kg	180	4/1/2002	AS	MA VPH 97-12
Naphthalene	Below det lim	ug/Kg	180	4/1/2002	AS	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/Kg	180	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	80	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	88	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/Kg	0.	4/1/2002	AS	MA VPH 97-12
TPH Preparation						
Ultrasonic Extraction	Completed			4/2/2002	RT	SW846 3550B
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	110	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/Kg	50	4/4/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/Kg	0.	4/4/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/Kg	230	4/4/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	64	ug/Kg	0	4/4/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	57	ug/Kg	0	4/4/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	45	ug/Kg	0	4/4/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	45	ug/Kg	0	4/4/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/Kg	0	4/4/2002	MSL	MA EPH 98-1

Metals Preparation

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Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Mercury Digestion	Completed			4/3/2002	LFR	EPA 245.1
Metals Digestion	Completed			4/3/2002	LFR	EPA 200.7
Metals Analysis						
Total PP13 Metals						
Total Antimony	Below det lim	mg/Kg	4.09	4/4/2002	KSE	EPA 200.7
Total Arsenic	Below det lim	mg/Kg	4.09	4/4/2002	KSE	EPA 200.7
Total Beryllium	Below det lim	mg/Kg	0.682	4/4/2002	KSE	EPA 200.7
Total Cadmium	1.60	mg/Kg	0.682	4/4/2002	KSE	EPA 200.7
Total Chromium	21.8	mg/Kg	1.36	4/4/2002	KSE	EPA 200.7
Total Copper	1,200	mg/Kg	1.36	4/4/2002	KSE	EPA 200.7
Total Lead	2,000	mg/Kg	2.04	4/4/2002	KSE	EPA 200.7
Total Nickel	18.2	mg/Kg	1.36	4/4/2002	KSE	EPA 200.7
Total Selenium	Below det lim	mg/Kg	4.09	4/4/2002	KSE	EPA 200.7
Total Silver	Below det lim	mg/Kg	2.73	4/4/2002	KSE	EPA 200.7
Total Thallium	Below det lim	mg/Kg	4.09	4/4/2002	KSE	EPA 200.7
Total Zinc	2,800	mg/Kg	1.36	4/4/2002	KSE	EPA 200.7
Total Mercury	13.5	mg/Kg	0.270	4/4/2002	EPE	EPA 245.1
% Solids	63.2	%		4/2/2002	RT	SM2540 B Mod

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	1000	3/29/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Benzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/L	100	3/29/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	500	3/29/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/L	250	3/29/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/L	100	3/29/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/L	100	3/29/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	100	3/29/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	100	3/29/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B

Lab ID No: AD05903

Collection Date: 3/27/2002

Client Id: Blank

Matrix Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
OCs by GC/MS						
Hexanone (MBK)	Below det lim	ug/L	500	3/29/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Isopropyltoluene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Methyl-2-pentanone (MIBK)	Below det lim	ug/L	500	3/29/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Propylbenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Styrene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Toluene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	100	3/29/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/L	50.0	3/29/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	105	ug/L	0.000	3/29/2002	KW	SW846 8260B
4-Difluorobenzene (%SR)	100	ug/L	0.000	3/29/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/L	0.000	3/29/2002	KW	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.750	3/29/2002	KW	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.250	3/29/2002	KW	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.250	3/29/2002	KW	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.750	3/29/2002	KW	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.250	3/29/2002	KW	MA VPH 97-12
Carbon Chain Dilution Factor	50	mg/L	0.	3/29/2002	KW	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	50	3/29/2002	KW	MA VPH 97-12
Toluene	Below det lim	ug/L	50	3/29/2002	KW	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	50	3/29/2002	KW	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	100	3/29/2002	KW	MA VPH 97-12
o-Xylene	Below det lim	ug/L	50	3/29/2002	KW	MA VPH 97-12
Naphthalene	Below det lim	ug/L	50	3/29/2002	KW	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	50	3/29/2002	KW	MA VPH 97-12

Lab ID No: AD05903

Collection Date: 3/27/2002

Client Id: Blank

Matrix Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	3/29/2002	KW	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	3/29/2002	KW	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	101	ug/L	0.	3/29/2002	KW	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	105	ug/L	0.	3/29/2002	KW	MA VPH 97-12
Target Analytes Dilution Factor	50	ug/L	0.	3/29/2002	KW	MA VPH 97-12

Lab ID No: AD05903

Client Id: Blank

Collection Date: 3/27/2002

Matrix Methanol

Parameter	Results	Units	PQL	Start Date	Analyst	Method
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The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input checked="" type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Aqueous Preservative	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH $>$ 2 <input type="checkbox"/> pH adjusted to \leq 2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 6°C

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrix	<input type="checkbox"/> Aqueous <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Sample Preservative	Aqueous <input checked="" type="checkbox"/> N/A <input type="checkbox"/> pH \leq 2 <input type="checkbox"/> pH $>$ 2 Comment:
	Soil or Sediment <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Samples NOT received in Methanol or air-tight container
	<input checked="" type="checkbox"/> Samples received in Methanol covering soil <input type="checkbox"/> not covering soil
	<input type="checkbox"/> Sample received in air-tight container:
Temperature	<input type="checkbox"/> Received on ice <input checked="" type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 6°C

Were all QA/QC procedures followed as required by the VPH method? Yes ☒ No ☐

Were any significant modifications made to the VPH method, as specified in Section 11.3? No * see below

Were all QA/QC procedures followed as required by the EPH method? Yes ☒ No ☐

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes ** see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes ☒ No ☐

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method.

** Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

4/5/2002



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement

References

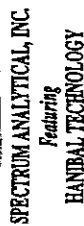
SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons

Definitions

<u>Equipment Blank:</u>	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
<u>Field Duplicate:</u>	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
<u>Laboratory Control Sample (LCS):</u>	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
<u>Matrix Duplicate:</u>	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
<u>Matrix Spike:</u>	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
<u>Matrix Spike Duplicates:</u>	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<u>Method Blank:</u>	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
<u>Method Detection Limit (MDL):</u>	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
<u>Practical Quantitation Limit (PQL):</u>	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
<u>Precision:</u>	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
<u>Surrogate:</u>	An organic compound which is similar to the target analyte(s) in chemical composition and behavior through the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
<u>Trip Blank:</u>	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.



Special Handling: See

☒ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed: _____

- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: CDW Consultants, Inc.

111 Speen St.

Framingham, MA

Project Mgr.: Kathryn Campbell 01701

Invoice To: Same

Project Mgr.: Kathleen Campbell

P.O. No.: RQN: 3529

Project No.: 900.00

Site Name: Former Sax Property

Location: Dorchester State: MA

Sampler(s): Brian Miller

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid
7= CH_3OH 8= NaHSO_4 9= 4°C 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type
105898	B-43/S-3	3/27/02	8:20	G
105899	B-44/S-3		8:50	
105900	B-45/S-2		9:10	
105901	B-46/S-2		10:00	
105902	CDW-8/S-2		10:50	
105903	Blank		7:30	
105904				
105905				
105906				
105907				
105908				

Type	Matrix	Preservative
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Containers: Analyses:

Notes

[illegible]

Belgique

Received

Date: _____

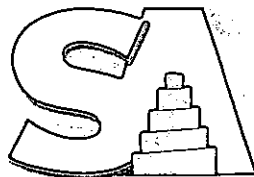
Time

☐ Fax results when available to ()

☒ E-mail results when available to bmiller@cdw.com Hant

Condition upon Receipt: ☐ Iced ☐ Ambient

10



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138

Rhode Island # 98 Maine # MA138

Florida # E87600 / 87562

New Hampshire # 2538

Connecticut # PH-0777

New York # 11393

CDW Consultants, Inc.

111 Speen Street - Suite 119

Framingham, MA 01701

Attn: Kathleen Campbell

Client Project Number: 900.00

Monday, April 08, 2002

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report



Location: Former Sax - Dorchester, MA

Laboratory ID

Client Sample ID

Analyses Requested

AD06521

CDW-5

Separatory Funnel Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury
Weak Acid Dissociable Cyanide

AD06522

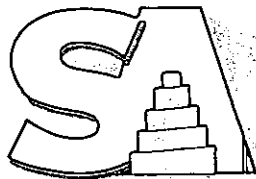
CDW-6

Separatory Funnel Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury
Weak Acid Dissociable Cyanide

AD06523

CDW-3

Separatory Funnel Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VPH Aliphatics/Aromatics



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Client Project Number: 900.00

Location: Former Sax - Dorchester, MA

Laboratory ID

Client Sample ID

Analyses Requested

AD06523

CDW-3

VPH Target Analytes
VOCs by GC/MS
Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury
Weak Acid Dissociable Cyanide

AD06524

CDW-2

Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury

AD06525

CDW-7

Separatory Funnel Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury
Weak Acid Dissociable Cyanide
VOC Matrix Spike Recovery
Duplicate VOC Matrix Spike Rec

AD06526

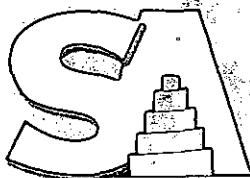
EMW-6

Metals Filtration
Soluble Mercury Digestion
Soluble PP13 Metals
Soluble Mercury

AD06527

CDW-1

Separatory Funnel Extraction
EPH Aliphatics/Aromatics
EPH Target PAH Analytes
VPH Aliphatics/Aromatics
VPH Target Analytes
VOCs by GC/MS
Metals Filtration



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Client Project Number: 900.00

Location: Former Sax - Dorchester, MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD06527	CDW-1	Soluble Mercury Digestion Soluble PP13 Metals
AD06528	EMW-7	Soluble Mercury Metals Filtration Soluble Mercury Digestion Soluble PP13 Metals Soluble Mercury
AD06529	CDW-8	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS Metals Filtration Soluble Mercury Digestion Soluble PP13 Metals Soluble Mercury
AD06530	EMW-5	Metals Filtration Soluble Mercury Digestion Soluble PP13 Metals Soluble Mercury
AD06531	Blank	VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS
AD06532	Dup	Separatory Funnel Extraction EPH Aliphatics/Aromatics EPH Target PAH Analytes VPH Aliphatics/Aromatics VPH Target Analytes VOCs by GC/MS Metals Filtration Soluble Mercury Digestion Soluble PP13 Metals Soluble Mercury Weak Acid Dissociable Cyanide



SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Client Project Number: 900.00

Location: Former Sax - Dorchester, MA

Laboratory ID

Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by:

**Hanibal C. Tayeh, Ph.D.
President/Laboratory Director**

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Former Sax - Dorchester, MA

Client: CDW

Lab ID No: AD06521

Client Id: CDW-5

Client Project No: 900.00

Submittal Date: 4/2/2002

Collection Date: 4/1/2002

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	4/3/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	4/3/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
2,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	101	ug/L		4/3/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	105	ug/L		4/3/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	103	ug/L		4/3/2002	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	4/3/2002	TR	MA VPH 97-12

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	4/3/2002	TR	MA VPH 97-12
o-Xylene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	107	ug/L	0.	4/3/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	98	ug/L	0.	4/3/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	4/3/2002	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			4/4/2002	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		4/5/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	45	ug/L	0.	4/5/2002	MSL	MA EPH 98-1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
EPH Target PAH Analytes						
Ortho-Terphenyl Aromatic (%SR)	42	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	51	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	76	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0015	4/5/2002	KSE	EPA 200.7
Soluble Copper	Below det lim	mg/L	0.0015	4/5/2002	KSE	EPA 200.7
Soluble Lead	Below det lim	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	Below det lim	mg/L	0.0015	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0015	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0034	4/6/2002	EPR	EPA 245.1
General Chemistry						
Weak Acid Dissociable Cyanide	Below det lim	mg/L	0.01	4/4/2002	YV	SM4500-CN-I

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Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	20.0	4/3/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	4/3/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
Hexachlorobutadiene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	1.2	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	97	ug/L		4/3/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	105	ug/L		4/3/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	101	ug/L		4/3/2002	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.015	4/3/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.015	4/3/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0	4/3/2002	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	4/3/2002	TR	MA VPH 97-12

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Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
YPH Target Analytes						
p-Xylene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	98	ug/L	0.	4/3/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	94	ug/L	0.	4/3/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	4/3/2002	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			4/4/2002	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		4/5/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	52	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	60	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	50	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	75	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	4/5/2002	MSL	MA EPH 98-1

Lab ID No: AD06522

Client Id: CDW-6

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Copper	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Lead	0.0049	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	0.252	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	4/6/2002	EPR	EPA 245.1
General Chemistry						
Weak Acid Dissociable Cyanide	Below det lim	mg/L	0.01	4/4/2002	YV	SM4500-CN-I

Lab ID No: AD06523

Client Id: CDW-3

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	4/3/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	4/3/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
Hexachlorobutadiene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	101	ug/L		4/3/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	106	ug/L		4/3/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	103	ug/L		4/3/2002	TR	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	4/3/2002	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	4/3/2002	TR	MA VPH 97-12

Lab ID No: AD06523

Client Id: CDW-3

Collection Date: 4/1/2002

Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Target Analytes						
p-Xylene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	108	ug/L	0.	4/3/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	98	ug/L	0.	4/3/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	4/3/2002	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			4/4/2002	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	0.60	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	0.24	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	0.26	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		4/5/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Phenanthrene	7.1	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluoranthene	7.7	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Pyrene	7.1	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	53	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	59	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	51	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	40	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	4/5/2002	MSL	MA EPH 98-1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Copper	0.0813	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Lead	0.0212	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	0.0559	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	0.726	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	4/6/2002	EPR	EPA 245.1
General Chemistry						
Weak Acid Dissociable Cyanide	Below det lim	mg/L	0.01	4/4/2002	YV	SM4500-CN-I

Lab ID No: AD06524

Client Id: CDW-2

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Copper	0.0298	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Lead	0.0148	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	0.0069	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	0.0962	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	4/6/2002	EPR	EPA 245.1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	4/3/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	4/3/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B

Lab ID No: AD06525

Collection Date: 4/1/2002

Client Id: CDW-7

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
Hexachlorobutadiene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	99	ug/L		4/3/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	105	ug/L		4/3/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	102	ug/L		4/3/2002	TR	SW846 8260B
APH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	4/3/2002	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	4/3/2002	TR	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	99	ug/L	0.	4/3/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	96	ug/L	0.	4/3/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	4/3/2002	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			4/4/2002	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	4.8	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	14	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	9.7	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	9.7	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		4/5/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	50	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	57	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	57	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	43	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	4/5/2002	MSL	MA EPH 98-1

Lab ID No: AD06525

Collection Date: 4/1/2002

Client Id: CDW-7

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Copper	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Lead	Below det lim	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	0.0063	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	0.0724	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	4/6/2002	EPR	EPA 245.1
General Chemistry						
Weak Acid Dissociable Cyanide	Below det lim	mg/L	0.01	4/4/2002	YV	SM4500-CN-I

Lab ID No: AD06526

Client Id: EMW-6

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
<i>Soluble PP13 Metals</i>						
Soluble Antimony	Below det lim	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	0.0105	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Copper	0.337	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Lead	Below det lim	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	1.33	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	1.57	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	4/6/2002	EPR	EPA 245.1

Lab ID No: AD06527

Client Id: CDW-1

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	20.0	4/3/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	4/3/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
ethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
Hexachlorobutadiene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	111	ug/L		4/3/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	105	ug/L		4/3/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	111	ug/L		4/3/2002	TR	SW846 8260B
VPH Allphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	4/3/2002	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	4/3/2002	TR	MA VPH 97-12

Lab ID No: AD06527

Client Id: CDW-1

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Target Analytes						
p-Xylene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	125	ug/L	0.	4/3/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	107	ug/L	0.	4/3/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	4/3/2002	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			4/4/2002	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		4/5/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	57	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	51	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	49	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	77	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	4/5/2002	MSL	MA EPH 98-1

Lab ID No: AD06527

Client Id: CDW-1

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
<i>Soluble PP13 Metals</i>						
Soluble Antimony	0.0184	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	0.0081	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Copper	0.0394	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Lead	0.0377	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	0.229	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0015	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	1.73	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	4/6/2002	EPR	EPA 245.1

Lab ID No: AD06528

Client Id: EMW-7

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	0.0054	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Copper	0.0767	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Lead	Below det lim	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	0.0164	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	10.7	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	4/6/2002	EPR	EPA 245.1

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	30.0	4/3/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	4/3/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B

Lab ID No: AD06529

Client Id: CDW-8

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
Hexachlorobutadiene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1-Bromofluorobenzene (%SR)	101	ug/L		4/3/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	104	ug/L		4/3/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	102	ug/L		4/3/2002	TR	SW846 8260B
APH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	4/3/2002	TR	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	4/3/2002	TR	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	105	ug/L	0.	4/3/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	98	ug/L	0.	4/3/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	4/3/2002	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			4/4/2002	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	2.5	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	0.87	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	0.87	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		4/5/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	64	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	63	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	52	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	41	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	4/5/2002	MSL	MA EPH 98-1

Lab ID No: AD06529

Client Id: CDW-8

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	0.0149	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	0.0106	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Copper	0.193	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Lead	0.0081	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	0.0047	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	0.0877	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	4/6/2002	EPR	EPA 245.1

Lab ID No: AD06530

Client Id: EMW-5

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Copper	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Lead	Below det lim	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	0.0241	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	4/6/2002	EPR	EPA 245.1

Lab ID No: AD06531

Client Id: Blank

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
<i>VOCs by GC/MS</i>						
Acetone	Below det lim	ug/L	20.0	4/4/2002	KW	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Benzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	4/4/2002	KW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	4/4/2002	KW	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	4/4/2002	KW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	4/4/2002	KW	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	4/4/2002	KW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/4/2002	KW	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/4/2002	KW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
Hexachlorobutadiene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	4/4/2002	KW	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	4/4/2002	KW	SW846 8260B
Methylene chloride	Below det lim	ug/L	5.0	4/4/2002	KW	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Styrene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Toluene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	4/4/2002	KW	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	4/4/2002	KW	SW846 8260B
4-Bromofluorobenzene (%SR)	91	ug/L		4/4/2002	KW	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/L		4/4/2002	KW	SW846 8260B
Chlorobenzene-d5 (%SR)	92	ug/L		4/4/2002	KW	SW846 8260B
VPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	4/4/2002	KW	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	4/4/2002	KW	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	4/4/2002	KW	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	4/4/2002	KW	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	4/4/2002	KW	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	4/4/2002	KW	MA VPH 97-12
VPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	4/4/2002	KW	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	4/4/2002	KW	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	4/4/2002	KW	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	4/4/2002	KW	MA VPH 97-12

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Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
p-Xylene	Below det lim	ug/L	5.0	4/4/2002	KW	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	4/4/2002	KW	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	4/4/2002	KW	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	4/4/2002	KW	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	4/4/2002	KW	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	80	ug/L	0.	4/4/2002	KW	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	94	ug/L	0.	4/4/2002	KW	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	4/4/2002	KW	MA VPH 97-12

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	20.0	4/3/2002	TR	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Benzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	4/3/2002	TR	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B

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Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VOCs by GC/MS						
Hexachlorobutadiene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	10.0	4/3/2002	TR	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Styrene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Toluene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
Vinyl chloride	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	4/3/2002	TR	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	4/3/2002	TR	SW846 8260B
4-Bromofluorobenzene (%SR)	107	ug/L		4/3/2002	TR	SW846 8260B
1,4-Difluorobenzene (%SR)	104	ug/L		4/3/2002	TR	SW846 8260B
Chlorobenzene-d5 (%SR)	109	ug/L		4/3/2002	TR	SW846 8260B
YPH Aliphatics/Aromatics						
C5-C8 Aliphatic Hydrocarbons	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
C9-C12 Aliphatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
C9-C10 Aromatic Hydrocarbons	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Unadjusted C5-C8 Aliphatics	Below det lim	mg/L	0.075	4/3/2002	TR	MA VPH 97-12
Unadjusted C9-C12 Aliphatics	Below det lim	mg/L	0.025	4/3/2002	TR	MA VPH 97-12
Carbon Chain Dilution Factor	1	mg/L	0.	4/3/2002	TR	MA VPH 97-12
YPH Target Analytes						
Benzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Toluene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Ethylbenzene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
m,p-Xylenes	Below det lim	ug/L	10	4/3/2002	TR	MA VPH 97-12

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Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
VPH Target Analytes						
o-Xylene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Naphthalene	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	5.0	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) PID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) FID	na	ug/L	0.	4/3/2002	TR	MA VPH 97-12
2,5-Dibromotoluene (%SR) GCMS	104	ug/L	0.	4/3/2002	TR	MA VPH 97-12
4-Bromofluorobenzene (%SR) GCMS	103	ug/L	0.	4/3/2002	TR	MA VPH 97-12
Target Analytes Dilution Factor	1	ug/L	0.	4/3/2002	TR	MA VPH 97-12
TPH Preparation						
Separatory Funnel Extraction	Completed			4/4/2002	WB	SW846 3510C
Petroleum Hydrocarbon Analysis						
EPH Aliphatics/Aromatics						
C9-C18 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C19-C36 Aliphatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
C11-C22 Aromatic Hydrocarbons	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Unadjusted C11-C22 Aromatics	Below det lim	mg/L	0.2	4/5/2002	MSL	MA EPH 98-1
Carbon Chain Dilution Factor	1	mg/L		4/5/2002	MSL	MA EPH 98-1
EPH Target PAH Analytes						
Naphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
2-Methylnaphthalene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Acenaphthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluorene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Phenanthrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Chrysene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (b) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (k) fluoranthene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (a) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Indeno (1,2,3-cd) pyrene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Dibenzo (a,h) anthracene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
Benzo (g,h,i) perylene	Below det lim	ug/L	5.0	4/5/2002	MSL	MA EPH 98-1
1-Chloro-octadecane Aliphatic (%SR)	41	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Ortho-Terphenyl Aromatic (%SR)	45	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Bromonaphthalene Fractionation (%SR)	45	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
2-Fluorobiphenyl Fractionation (%SR)	68	ug/L	0.	4/5/2002	MSL	MA EPH 98-1
Target Analyte Dilution Factor	1	ug/L	0.	4/5/2002	MSL	MA EPH 98-1

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Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Metals Preparation						
Metals Filtration	lab filter			4/5/2002	EP	
Soluble Mercury Digestion	Completed			4/5/2002	LK	EPA 245.1
Metals Analysis						
Soluble PP13 Metals						
Soluble Antimony	Below det lim	mg/L	0.006	4/5/2002	KSE	EPA 200.7
Soluble Arsenic	Below det lim	mg/L	0.004	4/5/2002	KSE	EPA 200.7
Soluble Beryllium	Below det lim	mg/L	0.001	4/5/2002	KSE	EPA 200.7
Soluble Cadmium	Below det lim	mg/L	0.00125	4/5/2002	KSE	EPA 200.7
Soluble Chromium	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Copper	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Lead	Below det lim	mg/L	0.00375	4/5/2002	KSE	EPA 200.7
Soluble Nickel	Below det lim	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Selenium	Below det lim	mg/L	0.0075	4/5/2002	KSE	EPA 200.7
Soluble Silver	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Thallium	Below det lim	mg/L	0.005	4/5/2002	KSE	EPA 200.7
Soluble Zinc	0.117	mg/L	0.0025	4/5/2002	KSE	EPA 200.7
Soluble Mercury	Below det lim	mg/L	0.0004	4/6/2002	EPR	EPA 245.1
General Chemistry						
Weak Acid Dissociable Cyanide	Below det lim	mg/L	0.01	4/4/2002	YV	SM4500-CN-I

Lab ID No: AD06532

Client Id: Dup

Collection Date: 4/1/2002

Matrix Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
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The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrix	<input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Aqueous Preservative	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> pH ≤ 2 <input type="checkbox"/> pH > 2 <input type="checkbox"/> pH adjusted to ≤ 2 in lab Comment:
Temperature	<input type="checkbox"/> Received on ice <input type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 10°C

The following outlines the condition of all VPH samples contained within this report upon laboratory receipt.

Matrix	<input checked="" type="checkbox"/> Aqueous <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Other:
Containers	<input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Broken <input type="checkbox"/> Leaking
Sample Preservative	Aqueous <input type="checkbox"/> N/A <input checked="" type="checkbox"/> pH ≤ 2 <input type="checkbox"/> pH > 2 Comment:
	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> Samples NOT received in Methanol or air-tight container
	<input type="checkbox"/> Samples received in Methanol covering soil <input type="checkbox"/> not covering soil
	<input type="checkbox"/> Sample received in air-tight container:
Temperature	<input type="checkbox"/> Received on ice <input type="checkbox"/> Received cold <input type="checkbox"/> Received ambient <input checked="" type="checkbox"/> Recorded temperature: 10°C

Were all QA/QC procedures followed as required by the VPH method? Yes ☒ No ☐

Were any significant modifications made to the VPH method, as specified in Section 11.3? No * see below

Were all QA/QC procedures followed as required by the EPH method? Yes ☒ No ☐

Were any significant modifications made to the EPH method, as specified in Section 11.3? Yes ** see below

Were all performance/acceptance standards for required QA/QC procedures achieved? Yes ☒ No ☐

* Yes, if PID and FID surrogate recoveries are listed as n/a, then that sample was run via GCMS using all QC criteria specified in the method.

** Sample(s) was run via GCMS using all QC criteria specified in the method.

I attest that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Reviewed by:

Validated by:

Quality Service/Quality Assurance Depts.

President/Laboratory Director

4/8/2002



SPECTRUM ANALYTICAL, INC.

Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

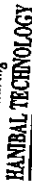
SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	PID	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons

Definitions

<u>Equipment Blank:</u>	A sample of analyte-free media, which has been used to rinse the sampling equipment. It is collected after completion of decontamination and prior to sampling. This blank is useful in documenting adequate decontamination of sampling equipment.
<u>Field Duplicate:</u>	Independent samples, which are collected as close as possible to the same point in space and time. They are two separate samples taken from the same source, stored in separate containers, and analyzed independently. These duplicates are useful in documenting the precision of the sampling process.
<u>Laboratory Control Sample (LCS):</u>	A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.
<u>Matrix Duplicate:</u>	An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.
<u>Matrix Spike:</u>	An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.
<u>Matrix Spike Duplicates:</u>	Intra-laboratory split of samples spiked with identical concentrations of target analyte(s). The spiking occurs prior to sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<u>Method Blank:</u>	An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.
<u>Method Detection Limit (MDL):</u>	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
<u>Practical Quantitation Limit (PQL):</u>	The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample PQLs are highly matrix-dependent.
<u>Precision:</u>	The agreement among a set of replicate measurements without assumption of knowledge of the true value. Precision is estimated by means of duplicate/replicate analyses. These samples should contain concentrations of analyte above the MDL, and may involve the use of matrix spikes. The Relative Percent Difference (%RPD) is used to estimate the precision between two samples.
<u>Surrogate:</u>	An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.
<u>Trip Blank:</u>	A sample of analyte-free media taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures. This type of blank is useful in documenting contamination of volatile organic samples.



4/2/02	1448
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CHAIN OF CUSTODY RECORD

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 4/8/02
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

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Page 1 of 2

Report To: CDW Consultants, Inc.

Invoice To: Same

Project No.: 900.00

Site Name: Finner Sax Property

Location: Dorchester State: MA

Sampler(s): Brian Miller

Project Mgr.: Kathleen Campbell

P.O. No.: RON: 3529

Containers:

Analyses:

Notes:

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3 5= NaOH 6=Ascorbic Acid
7= CH_3OH 8= NaHSO_4 9=4°C 10=10=
DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	EPH w/PAHs	VPH w/8260	Soluble Pb/Mn	Free Cyanide		
AD 06531	CDW-5	4/1/02	1:00	G	GW	259	2	1		2	X	X	X	X		Please Filter
AC 06532	CDW-6		1:20			859	2	1		2	X	X	X	X		4 Preserve
AC 06533	CDW-3		1:35			859	2	1		2	X	X	X	X		metals.
AC 06534	CDW-2		1:45			9				1	X		X			
AD 06535	CDW-7		1:50			859	2	1		2	X	X	X	X		
AC 06536	EMW-6		2:20			9				1	X		X			
AC 06537	CDW-1		2:10			29	2	1		1	X	X	X	X		
AC 06538	EMW-7		2:30			9				1	X	X	X	X		
AC 06539	CDW-8		2:45			29	2	1		1	X	X	X	X		
AC 06540	EMW-6S		2:00			9				1	X		X			

Reinforced by

Reinforced by

Date: Time:

Per Brian Miller 4/2

3:00

Bergeson

4.8.02 11:30

☐ Fax results when available to ()

☒ E-mail results when available to bmiller@cdwconsultants.com

Condition upon Receipt: ☐ Iced ☐ Ambient ☒ 10°C

0403 0625



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HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138

Rhode Island # 98 Maine # MA138

Florida # E87600 / 87562

New Hampshire # 2538

Connecticut # PH-0777

New York # 11393

CDW Consultants, Inc.

111 Speen Street - Suite 119

Framingham, MA 01701

Attn: Brian Miller

Client Project Number: 900.00

Wednesday, April 17, 2002

Report Status:

- ☒ Final Report
☐ Re-issued Report
☐ Revised Report



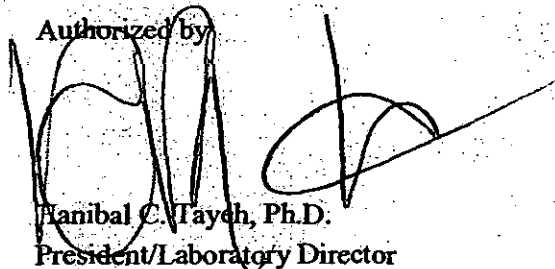
Location: MDC - Dorchester, MA

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Analyses Requested</u>
AD06510	ASB1	Asbestos Determination
AD06511	ASB2	Asbestos Determination
AD06512	ASB3	Asbestos Determination
AD06513	ASB4	Asbestos Determination
AD06514	ASB5	Asbestos Determination
AD06515	ASB6	Asbestos Determination
AD06516	ASB7	Asbestos Determination
AD06517	ASB8	Asbestos Determination
AD06518	ASB9	Asbestos Determination
AD06519	ASB10	Asbestos Determination

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAP including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by



Hanibal C. Tayeh, Ph.D.

President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: MDC - Dorchester, MA
Client: CDW

Client Project No: 900.00
Submittal Date: 4/2/2002

Lab ID No: AD06510	Client Id: ASB1	Collection Date: 4/1/2002	Matrix: Bldg. Debris			
Parameter	Results	Units	PQL	Start Date	Analyst	Method
Subcontracted Analyses						
Asbestos Determination						
1) Layer	Mastic	%		4/16/2002	TRC	EPA 600R
1) % Asbestos	3	%	1	4/16/2002	TRC	EPA 600R
1) Asbestos Type	Chrysotile	%		4/16/2002	TRC	EPA 600R
2) Layer	Tile	%		4/16/2002	TRC	EPA 600R
2) % Asbestos	3	%	1	4/16/2002	TRC	EPA 600R
2) Asbestos Type	Chrysotile	%		4/16/2002	TRC	EPA 600R

Lab ID No: AD06511	Client Id: ASB2	Collection Date: 4/1/2002	Matrix: Bldg. Debris			
Parameter	Results	Units	PQL	Start Date	Analyst	Method
Subcontracted Analyses						
Asbestos Determination						
% Asbestos	Below det lim	%	1	4/16/2002	TRC	EPA 600R
Asbestos Type	None	%		4/16/2002	TRC	EPA 600R

Lab ID No: AD06512	Client Id: ASB3	Collection Date: 4/1/2002	Matrix: Bldg. Debris			
Parameter	Results	Units	PQL	Start Date	Analyst	Method
Subcontracted Analyses						
Asbestos Determination						
% Asbestos	Below det lim	%	1	4/16/2002	TRC	EPA 600R
Asbestos Type	None	%		4/16/2002	TRC	EPA 600R

Lab ID No: AD06513	Client Id: ASB4	Collection Date: 4/1/2002	Matrix: Bldg. Debris			
Parameter	Results	Units	PQL	Start Date	Analyst	Method
Subcontracted Analyses						
Asbestos Determination						
% Asbestos	Below det lim	%		4/16/2002	TRC	EPA 600R
Asbestos Type	None	%		4/16/2002	TRC	EPA 600R

Lab ID No: AD06514	Client Id: ASB5	Collection Date: 4/1/2002	Matrix: Bldg. Debris
Parameter	Results	Units	PQL Start Date Analyst Method
Subcontracted Analyses			
Asbestos Determination			
% Asbestos	Below det lim	%	1 4/16/2002 TRC EPA 600R
Asbestos Type	None	%	4/16/2002 TRC EPA 600R

Lab ID No: AD06515	Client Id: ASB6	Collection Date: 4/1/2002	Matrix: Bldg. Debris
Parameter	Results	Units	PQL Start Date Analyst Method
Subcontracted Analyses			
Asbestos Determination			
% Asbestos	Below det lim	%	1 4/16/2002 TRC EPA 600R
Asbestos Type	None	%	4/16/2002 TRC EPA 600R

Lab ID No: AD06516	Client Id: ASB7	Collection Date: 4/1/2002	Matrix: Bldg. Debris
Parameter	Results	Units	PQL Start Date Analyst Method
Subcontracted Analyses			
Asbestos Determination			
% Asbestos	Below det lim	%	1 4/16/2002 TRC EPA 600R
Asbestos Type	None	%	4/16/2002 TRC EPA 600R

Lab ID No: AD06517	Client Id: ASB8	Collection Date: 4/1/2002	Matrix: Bldg. Debris
Parameter	Results	Units	PQL Start Date Analyst Method
Subcontracted Analyses			
Asbestos Determination			
% Asbestos	Below det lim	%	1 4/16/2002 TRC EPA 600R
Asbestos Type	None	%	4/16/2002 TRC EPA 600R

Lab ID No: AD06518	Client Id: ASB9	Collection Date: 4/1/2002	Matrix: Bldg. Debris
Parameter	Results	Units	PQL Start Date Analyst Method
Subcontracted Analyses			
Asbestos Determination			
% Asbestos	Trace	%	1 4/16/2002 TRC EPA 600R
Asbestos Type	Chrysotile	%	4/16/2002 TRC EPA 600R

Lab ID No: AD06519

Client Id: ASB10

Collection Date: 4/1/2002 Matrix: Bldg. Debris

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Subcontracted Analyses						
Asbestos Determination						
% Asbestos	Below det lim	%	1	4/16/2002	TRC	EPA 600R
Asbestos Type	None	%		4/16/2002	TRC	EPA 600R

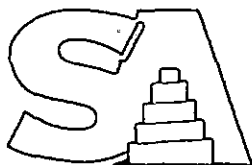
Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

4/17/2002



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Laboratory Report Supplement

References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19 th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

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